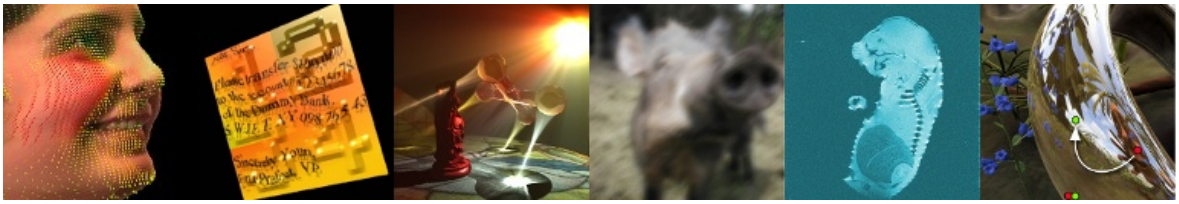


List of Classes Offered in the Winter Semester 2006 / 2007

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Introduction to Image Acquisition Methods (4 CP)
      Classroom lectures (2h) given by M. Welk
      Mo 11-13, Building E1.1, Lecture Hall 003
    - Ultraschall-Messtechnik (4 CP)
      Classroom lectures (2h) given by R. Lemor
      Mo 16:30-18, Building A5.1, Lecture Hall 1.22
  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by B. Burgeth
      Tu, Th 11-13, Building E1.3, Lecture Hall 002
    - Pattern and Speech Recognition (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by D. Klakow
      Tu 14-16, location TBA
  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Computer Graphics (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Slusallek
      Mo, Th 9-11, Building E1.3, Lecture Hall 002
  - **Seminars:**
    (You need at least 8 graded CP from this category.)
    - Recent Advances in Image Analysis and Computer Vision (8 CP)
      Seminar given by J. Weickert and M. Welk
      We 16-18, Building E1.1, Room 306
    - Attacking a Visual CAPTCHA (8 CP)
      Seminar given by T. Herfet
      We 14-16, Building C6.3, Room 10.10
    - Computer Graphics (8 CP)
      Seminar given by P. Slusallek
      We 11-13, Building E1.3, Room 013

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
  - Artificial Intelligence (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by J. Siekmann
    Tu, Th 14-16, Building E1.3, Lecture Hall 002
  - Telecommunications I (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tu, We 9-11, Building E1.3, Lecture Hall 001

- Selected Topis in Computational Biology: The Elements of Statistical Learning (6 CP)
  Classroom lectures (2h) with tutorials (2h) given by T. Lengauer
  We 11-13, Building E1.4, Room 024
- Intelligent eLearning Technologies (6 CP)
  Classroom lectures (2h) with tutorials (2h) given by E. Melis
  Th 9-11, Building E1.3, Lecture Hall 003
- Advanced Cryptography (6 CP)
  Classroom lectures (2h) with tutorials (2h) given by M. Backes
  We 14-16, Building E1.3, Lecture Hall 002
- Zerstörungsfreie Prüfverfahren Teil II
  Classroom lectures (2h) given by W. Arnold
  Th 9-11, Building E3.1, Seminar Room
- Consider also specialised classes in Computational Linguistics .

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:
    - Numerical Algorithms for Visual Computing II (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by M. Breuß
      We 11-13, Building E1.3, Lecture Hall 001
    - Theorie und Numerik Gewöhnlicher Differentialgleichungen (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by S. Rjasanow
      Tu 9-11, Th 14-16, Building E2.5, Lecture Hall 1
    - Partielle Differentialgleichungen (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by D. Apouchkinskaya
      Mo 9-11, Building E2.4, Lecture Hall IV
      We 9-11, Building E2.5, Lecture Hall III
    - Theorie und Numerik partieller Differentialgleichungen (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by V. John
      Tu, Th 14-16, Building E2.5, Lecture Hall III
    - Integraltransformationen (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by A. Louis
      Tu 11-13, Th 9-11, Building E2.4, Lecture Hall IV
    - Computerunterstützte Statistik (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by M. Kohler
      Mo 14-16, Building E2.4, Lecture Hall IV
  - Classes in Computer Science:
    - Programmierung I (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by G. Smolka
      Tu 14-16, Th 11-13, Building E2.5, Lecture Hall I
    - Softwarepraktikum
      Block course (6 weeks) offered by A. Zeller during the lecturing-free period
      Daily 9-11, Building E1.3, Lecture Hall 002
    - Computer Architecture (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by W. Paul
      Mo, We 14-16, Building E1.3, Lecture Hall 003
    - Algorithms and Data Structures (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by R. Seidel during the lecturing-free period
      Daily 9-10, 14-15, Building E2.5, Lecture Hall 002
  - Classes in Mechatronics:

        - Grundlagen der Signalverarbeitung (5 CP)
          Classroom lectures (2h) with tutorials (1h) given by D. Klakow
          Mo 11-13, Building A5.1, Lecture Hall -1.03
    - Classes in Physics:
        - Elementare Einführung in die Physik I (4 CP)
          Classroom lectures (2h) given by K. Jacobs
          We 11-13, Building C6.4, Großer Hörsaal
        - Physik für Ingenieure I (5 CP)
          Classroom lectures (2h) with tutorials (1h) given by J. Eisenmenger
          We 14-17, Building C6.4, Großer Hörsaal

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)
    - Soft Skill Seminar (4 CP)
      One week during the semester break, offered by K. Meyer-Ross
    - Work as a tutor (4 CP).
    - German as a Foreign Language for CS Students (6 CP)
      Lectures (4h) offered by the Max Planck Institute for Computer Science
    - English as a Foreign Language for CS Students (6 CP)
      Lectures (4h) offered by the Max Planck Institute for Computer Science
    - The International Office of Saarland University offers a number of foreign and German language courses .
    - Classes on other foreign languages are offered by the Language Center .
    - Any of the classes of the first three categories.
    - Classes in humanities (cognitive science, etc.) after approval in advance .

  A detailed description of the contents of these classes can be found in our Handbook of Module Descriptions .

  The campus map may help you to localise the individual buildings. If you spot some errors or have proposals for adding additional classes to this list, please contact Joachim Weickert .

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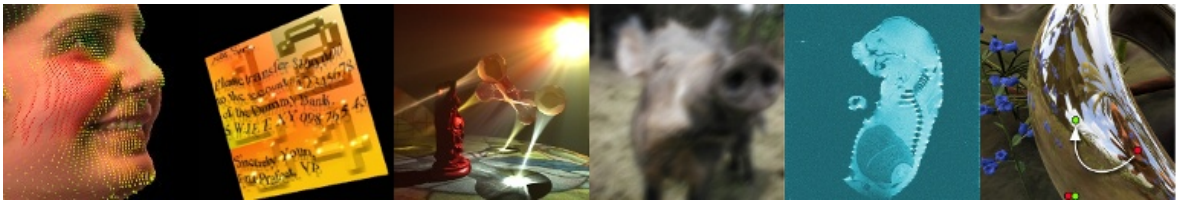

List of Classes Offered in the Summer Semester 2007

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Non-invasive imaging methods: MRI (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by F. Volke
      time and location by appointment
    - Akustische Abbildungsverfahren (4 CP)
      Classroom lectures (2h) given by S. Hirsekorn
      Th 14-16, Building E3.1, Seminar room of the IZFP
    - Röntgenprüfverfahren (4 CP)
      Classroom lectures (2h) given by W. Arnold
      time and location by appointment
    - Computational Photography (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by H. Lensch
      Fr 9-11, Room 024 (MPI)
  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Differential Equations in Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Weickert
      Tu, Fr 11-13, Building E1.3, Lecture Hall 001
    - Correspondence Problems in Computer Vision (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by A. Bruhn
      We, 14-16, Building E1.3, Lecture Hall 001
    - Mathematical Morphology in Image Analysis (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by B. Burgeth
      Th, 11-13, Building E1.3, Lecture Hall 003
    - Mustererkennung (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by M. Kohler
      Mo 11-13, Building E2.4, Lecture Hall IV
  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Realistic Image Synthesis (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Slusallek
      Mo, We 11-13, Building E1.3, Lecture Hall 001
  - **Seminars:**
    (You need at least 8 graded CP from this category.)
    - Engineering Technologies in Computer Graphics (8 CP)
      Seminar given by P. Slusallek
    - Numerical Methods for Image Analysis (8 CP)
      Seminar given by A. Bruhn and J. Weickert
    - Digital Data Communication (8 CP)
      Seminar given by T. Herfet

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
  - Machine Learning (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by H. Bast and J. Giesen
    Mo 11-13, Building E1.3, Lecture Hall 003
  - Statistical Learning II (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by T. Lengauer
    We 11-13, Building E1.4, the room will be announced
  - Advanced Topics in Statistical Natural Language Processing (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by D. Klakow
    time and location will be announced
  - Telecommunications II (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tu, We 9-11, Building E1.3, Lecture Hall 001
  - Cryptography (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by M. Backes
    Tu, Fr 11-13, Building E1.3, Lecture Hall 002
  - Grundlagen und Anwendungen der zerstörungsfreien Werkstoffprüfung und Qualitätssicherung, Teil I (4 CP)
    Classroom lectures (2h) given by W. Arnold
    Th 9-11, Building E3.1, Seminar Room

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:
    - Numerical Algorithms for Visual Computing III: Optimisation (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by M. Breuß
      Th 9-11, Building E1.3, Lecture Hall 001
    - Computer Algebra (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by F.-O. Schreyer
      Tu, Th 11-13, Building E2.4, Lecture Hall IV
    - Praktische Mathematik (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by A. Louis
      Tu 9-11, Th 14-16, Building E2.5, Lecture Hall II
    - Differentialgeometrie (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by M. Fuchs
      Mo 11-13, We 9-11, Building E2.5, Lecture Hall III
    - Stochastik (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by M. Kohler
      Tu 11-13, Building E2.5, Lecture Hall III, Fr 9-11, Building E1.3, Lecture Hall 001
    - Minimalflächen (4 CP)
      Classroom lectures (2h) given by M. Fuchs
      Th 9-11, Building E2.4, SR 5
    - Mathematische Optimierung (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by V. John
      Tu 11-13, Building E2.4, SR 5, We 11-13, Building E2.4, SR 3
    - Theorie und Numerik von Integralgleichungen (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by A. Louis
      Tu 14-16, Building E2.5, Lecture Hall II, Th 11-13, Building E2.4, SR 5
  - Classes in Computer Science:

        - Database Systems (9 CP)
          Block course (6 weeks) offered by C. Koch during the lecturing-free period, September/October 2007
        - Data Networks (9 CP)
          Classroom lectures (4h) with tutorials (2h) given by P. Druschel and K. Gummadi
          Mo, We 14-16, Building E1.3, Lecture Hall 002
        - Embedded Systems (9 CP)
          Classroom lectures (4h) with tutorials (2h) given by B. Finkbeiner
          Tu, Th 9-11, Building E1.3, Lecture Hall 003
        - Security (9 CP)
          Classroom lectures (4h) with tutorials (2h) given by D. Hutter and W. Stephan
          We, Fr 9-11, Building E1.3, Lecture Hall 002
        - Selected Topis in Algorithms (9 CP)
          Classroom lectures (4h) with tutorials (2h) given by R. Seidel
          Tu, Th 14-16, Building E1.3, Lecture Hall 001
        - Programmierung II (9 CP)
          Classroom lectures (4h) with tutorials (2h) given by A. Zeller
          Tu 14-16, Fr 9-11, Building E2.5, Lecture Hall I
        - Systemarchitektur (9 CP)
          Classroom lectures (4h) with tutorials (2h) given by W. Paul
          Mo, We 9-11, Building E2.5, Lecture Hall I
        - Softwarepraktikum (9 CP)
          Block course (6 weeks) offered by A. Zeller during the lecturing-free period, September/October 2007
        - Programmierung für Ingenieure (8 CP)
          Classroom lectures (4h) with tutorials (2h) given by T. Herfet and P. Slusallek
          Tu 14-16 and 16-18, Building E1.3, Lecture Hall 002
    - Classes in Mechatronics:
        - Digital Signal Processing (6 CP)
          Classroom lectures (2h) with tutorials (2h) given by D. Klakow
          Mo 9-11, Building A5.1, Lecture Hall -1.03
    - Classes in Physics:
        - Elementare Einführung in die Physik II (4 CP)
          Classroom lectures (2h) given by K.-H. Ehses
          We 11-13, Building C6.3, Großer Hörsaal
        - Physik für Ingenieure II (5 CP)
          Classroom lectures (2h) with tutorials (1h) given by F. Müller
          We 14-16, Building C6.3, Großer Hörsaal

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)
    - Soft Skills Seminar (4 CP)
      One week during semester break, in August 2007, offered by H. Bast and K. Meyer-Ross
    - Work as a tutor (4 CP).
    - German as a Foreign Language for CS Students (6 CP)
      Course offered by K. Meyer-Ross
    - English as a Foreign Language for CS Students (6 CP)
      Course offered by Lara-Tapia
    - The International Office of Saarland University offers a number of foreign and German language courses .
    - Classes on other foreign languages are offered by the Language Center .
    - Any of the classes of the first three categories.
    - Classes in humanities (cognitive science, etc.) after approval in advance .

A detailed description of the contents of these classes can be found in our Handbook of Module Descriptions .

The campus map may help you to localise the individual buildings. If you spot some errors or have proposals for adding additional classes to this list, please contact Joachim Weickert .

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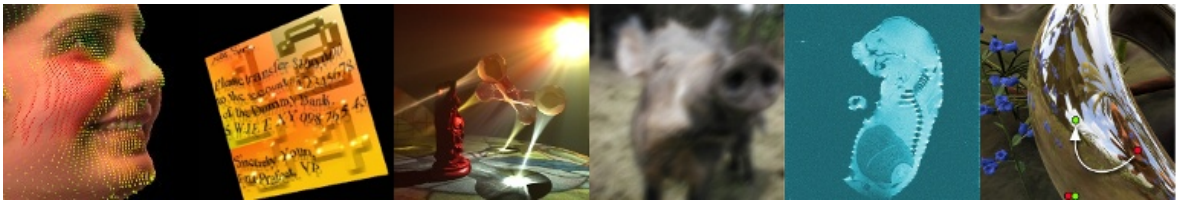

Breaking News

- **Information Meeting on Visual Computing**
  Mo, October 22, 14:15, Building E1.1, Room 306
  All Visual Computing students and other interested people are welcome.

List of Classes Offered in the Winter Semester 2007 / 2008

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Introduction to Image Acquisition Methods (4 CP)
      Classroom lectures (2h) given by J. Weickert
      We 14-16, Building E1.3, Lecture Hall 001
    - Ultraschall-Messtechnik (4 CP)
      Classroom lectures (2h) given by R. Lemor
      Mo 16:30-18, Building A5.1, Room -1.22
  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Weickert
      Tu, Th 10-12, Building E1.3, Lecture Hall 002
    - Dynamical Systems and Image Processing (4 CP)
      Classroom lectures (2h) given by M. Welk
      Fr 10-12, Building E1.3, Lecture Hall 003
    - Pattern and Speech Recognition (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by D. Klakow
      Mo 11-12:30, Building A5.1, Lecture Hall -1.03
  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Computer Graphics (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by H.P.A. Lensch
      Mo, Th 8-10, Building E1.3, Lecture Hall 002
  - **Seminars:**
    (You need at least 8 graded CP from this category.)
    - Problems in Image Analysis (8 CP)
      Seminar given by A. Bruhn
      We 16-18, Building E1.1, Room 306

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
  - Telecommunications I (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tu, We 8-10, Building E1.3, Lecture Hall 001

- Kernel Methods in Machine Learning (6 CP)
  Classroom lectures (2h) with tutorials (2h) given by M. Hein
  We 10-12, Building E1.3, Lecture Hall 003
- Information Retrieval and Data Mining (9CP)
  Classroom lectures (4h) with tutorials (2h) given by G. Weikum
  Tu, Th 14-16, Building E1.3, Lecture Hall 001
- Advanced Cryptography (6 CP)
  Block course in the lecture-free period given by M. Backes
  by appointment
- Zerstörungsfreie Prüfverfahren Teil II
  Classroom lectures (2h) given by U. Rabe
  Th 9-11, Building E3.1, Seminar Room

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:
    - Convex Analysis for Visual Computing (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by S. Didas
      Mo 10-12, Building E1.3, Lecture Hall 003
    - Gamma Convergence (6 CP)
      Seminar given by B. Burgeth
      to be announced, Building E1.1, Room 306
    - Theorie und Numerik Gewöhnlicher Differentialgleichungen (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by A. Louis
      Tu 8-10, Th 14-16, Building E2.5, Lecture Hall 1
    - Theorie und Numerik Partieller Differentialgleichungen (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by S. Rjasanow
      Tu, Th 14-16, Building E2.5, Lecture Hall 3
    - Partielle Differentialgleichungen I(9 CP)
      Classroom lectures (4h) with tutorials (2h) given by M. Fuchs
      Mo 8-10, Building E2.4, Lecture Hall IV
      We 8-10, Building E2.5, Lecture Hall III
    - Grundlagen der Variationsrechnung (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by M. Fuchs
      Th 8-10, Building E2.4, Seminar Room 3
    - Inverse Probleme: Theorie, Numerik und Anwendung in der Bildrekonstruktion (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by A. Louis
      Tu 14-16, Th 10-12, Building E2.4, Seminar Room 5
  - Classes in Computer Science:
    - Algorithms and Data Structures (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by B. Doerr and E. Althaus
      Mo 14-16, Lecture Hall 001, We 14-16, Lecture Hall 002, both in Building E1.3
    - Software Engineering
      Classroom lectures (4h) with tutorials (2h) given by A. Zeller and R. Premraj
      Mo, We 10-12, Building E1.3, Lecture Hall 002
    - Computer Architecture (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by W. Paul
      Mo, We 14-16, Building E1.3, Lecture Hall 003
    - Grundlagen von Algorithmen und Datenstrukturen (6 CP)
      Classroom lectures (2h) with tutorials (1h) given by R. Seidel
      Mo 8-10, Building E2.5, Lecture Hall 001

        - Programmierung I (9 CP)
          Classroom lectures (4h) with tutorials (2h) given by H. Hermanns
          Tu 14-16, Th 10-12, Building E2.5, Lecture Hall I
    - Classes in Mechatronics:
        - Grundlagen der Signalverarbeitung (5 CP)
          Classroom lectures (2h) with tutorials (1h) given by D. Klakow
          Mo 11-13, Building A5.1, Lecture Hall -1.03
    - Classes in Physics:
        - Elementare Einführung in die Physik I (4 CP)
          Classroom lectures (2h) given by K. Knorr
          We 10-12, Building C6.4, Großer Hörsaal
        - Physik für Ingenieure I (5 CP)
          Classroom lectures (2h) with tutorials (1h)
          We 14-17, Building C6.4, Großer Hörsaal

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)
    - Work as a tutor (4 CP)
    - German as a Foreign Language for CS Students (6 CP)
      Lectures (4h) offered by the Max Planck Institute for Computer Science
    - English as a Foreign Language for CS Students (6 CP)
      Lectures (4h) offered by the Max Planck Institute for Computer Science
    - The International Office of Saarland University offers a number of foreign and German language courses .
    - Classes on other foreign languages are offered by the Language Center .
    - Any of the classes of the first three categories.
    - Classes in humanities (cognitive science, etc.) after approval in advance .

  A detailed description of the contents of these classes can be found in our Handbook of Module Descriptions .

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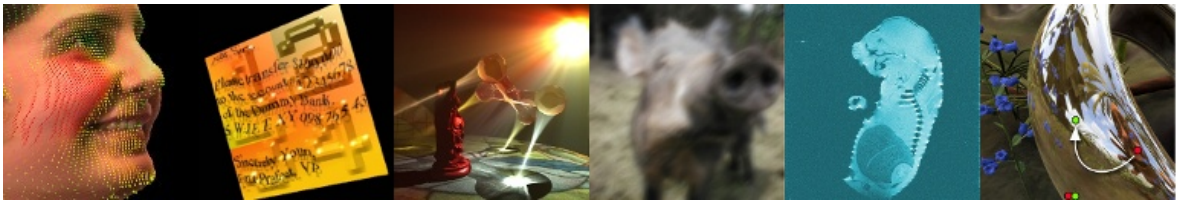

- **Information Meeting on Visual Computing**
  Monday, April 14, 2:15 pm in E1.1, Room 306
  All Visual Computing students and other interested people are welcome.

List of Classes Offered in the Summer Semester 2008

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Non-invasive imaging methods: MRI (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by F. Volke
      Th 15:45-18, IBMT, Ensheimerstr. 48, Lecture Room 1 (1st floor)
    - Geometric Modeling (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by H.P. Seidel
      Tu 16-18, Th 10-12, Building E1.4, Room R.024
    - Akustische Abbildungsverfahren (4 CP)
      Classroom lectures (2h) given by S. Hirsekorn
      Th 14-16, Building E3.1, Seminar room of the IZFP
    - Röntgenprüfverfahren (4 CP)
      Classroom lectures (2h) given by W. Arnold
      Th 11-13, Building E3.1, Seminar room of the IZFP
      Note: On demand, the lecture can be given in English
  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Differential Equations in Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Weickert
      Tu, Fr 10-12, Building E1.3, Lecture Hall 001
    - Correspondence Problems in Computer Vision (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by A. Bruhn
      We, 14-16, Building E1.3, Lecture Hall 001
    - Differential Geometric Aspects of Image Processing (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by M. Welk
      Tu, 14-16, Building E1.3, Lecture Hall 001
  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Realistic Image Synthesis (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Slusallek and K. Myszkowski
      Mo, We 10-12, Building E1.3, Lecture Hall 001
    - Information Visualization (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by C. Görg
      Mo, We 12-14, Building E1.3, Lecture Hall 001
  - **Seminars:**
    (You need at least 8 graded CP from this category.)

- Seminar on Processing of Matrix-Valued Images (8 CP)
  Seminar given by S. Didas
  We 16-18, Building E1.1, Room 306
- Emerging Technologies in Computer Graphics (8 CP)
  Seminar given by P. Slusallek
  block course, time and location by appointment, see www
- Image-based 3D Analysis (8 CP)
  Seminar given by H. Lensch and T. Thormählen
  Mo 14-16, Building E1.4 (Max-Planck-Institut), Room 024
- Error Correction Techniques (8 CP)
  Seminar given by T. Herfet
  for time and location see Timeline at www
- Visual Analytics (8 CP)
  Seminar given by C. Görg
  Th 14-16, Building E1.3, Room 401

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
  - Statistical Learning II (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by T. Lengauer
    the lectures will take place We 10-12, further details will be announced
  - Telecommunications II (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tu, We 8-10, Building E1.3, Lecture Hall 001
  - Statistical Natural Language Processing (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by D. Klakow
    Fr 8:30 - 10 (can be shifted on agreement), Building C7 2, seminar room
  - Consider also specialised classes in computational linguistics.
  - Cryptography (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by M. Backes
    Tu, Fr 10-12, Building E1.3, Lecture Hall 002
  - Information Retrieval for Music and Motion (4 CP)
    Classroom lectures (2h) given by M. Müller
    Th 16-18, Building E 1.4 (MPI), Room 24
  - Grundlagen und Anwendungen der zerstörungsfreien Werkstoffprüfung und Qualitätssicherung, Teil I (4 CP)
    Classroom lectures (2h) given by U. Rabe
    Th 9-11, Building E3.1, Seminar Room
  - Praktikum zu Zerstörungsfreie Prüfverfahren Teil I (4 CP)
    Block course offered by U. Rabe during the lecturing-free period,
    21.7.-25.7., more details by appointment

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:
    - Numerical Algorithms for Visual Computing I (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by M. Breuß
      Th 14-16, Building E1.3, Lecture Hall 001
    - Integral Equations for Visual Computing (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by B. Burgeth
      Th 10-12, Building E1.3, Lecture Hall 001

        - Praktische Mathematik (9 CP)
          Classroom lectures (4h) with tutorials (2h) given by V. John
          We 8-10, Building E1.3, Lecture Hall 003, Th 14-16, Building E2.5, Lecture Hall II
        - Differentialgeometrie (9 CP)
          Classroom lectures (4h) with tutorials (2h) given by M. Fuchs
          Tu 10-12, Building E2.4, Lecture Hall IV, We 10-12, Building E2.5, Lecture Hall III
        - Optimierung (9 CP)
          Classroom lectures (4h) with tutorials (2h) given by A.K. Louis
          Di 10-12, Building E2.5, Lecture Hall 003, Th 10-12, Building E2.4, Lecture Hall IV
    - Classes in Computer Science:
        - Algorithms and Data Structures (9 CP)
          Block course including tutorials given by K. Mehlhorn and R. Seidel
          September 1st until October 2nd, more details at course webpage
        - Convex Optimization and Modelling (6 CP)
          Classroom lectures (2h) with tutorials (2h) given by M. Hein
          Lectures: Mo, 14-16, Building E2.4, HS II, Tutorials: Tu, 16-18, Building E1.3, SR016
        - Optimization (9 CP)
          Classroom lectures (4h) with tutorials (2h) given by E. Althaus and A. Karrenbauer
          Tu, Th 14-16, Building E1.3, Lecture Hall 003
        - Artificial Intelligence (9 CP)
          Block course offered by W. Wahlster during the lecturing-free period,
          September/October 2008
        - Security (9 CP)
          Classroom lectures (4h) with tutorials (2h) given by W. Stephan
          We, Fr 8-10, Building E1.3, Lecture Hall 002
        - Systemarchitektur (9 CP)
          Classroom lectures (4h) with tutorials (2h) given by W. Paul
          Mo, We 8-10, Building E2.5, Lecture Hall I
        - Softwarepraktikum (9 CP)
          Block course (6 weeks) offered by A. Zeller during the lecturing-free period,
          September/October 2008
        - Programmierung für Ingenieure (8 CP)
          Classroom lectures (4h) with tutorials (2h) given by T. Herfet
          Tu 14-16 and 16-18, Building E1.3, Lecture Hall 002
    - Classes in Mechatronics:
        - Digital Signal Processing (6 CP)
          Classroom lectures (2h) with tutorials (2h) given by D. Klakow
          Mo 9-11, Building A5.1, Lecture Hall -1.03
    - Classes in Physics:
        - Elementare Einführung in die Physik II (4 CP)
          Classroom lectures (2h) given by K. Knorr
          We 10-12, Building C6.3, Großer Hörsaal
        - Physik für Ingenieure II (5 CP)
          Classroom lectures (2h) with tutorials (1h) given by R. Seemann
          Fr 15-17, Building C6.3, Großer Hörsaal

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)
    - Work as a tutor (4 CP)
    - German as a Foreign Language for CS Students (6 CP)
      Lectures (4h) offered by the Max Planck Institute for Computer Science
    - English as a Foreign Language for CS Students (6 CP)
      Lectures (4h) offered by the Max Planck Institute for Computer Science

- The International Office of Saarland University offers a number of foreign and German language courses .
- Classes on other foreign languages are offered by the Language Center .
- Any of the classes of the first three categories.
- Classes in humanities (cognitive science, etc.) after approval in advance .

A detailed description of the contents of these classes can be found in our Handbook of Module Descriptions .

The campus map may help you to localise the individual buildings. If you spot some errors or have proposals for adding additional classes to this list, please contact Joachim Weickert .

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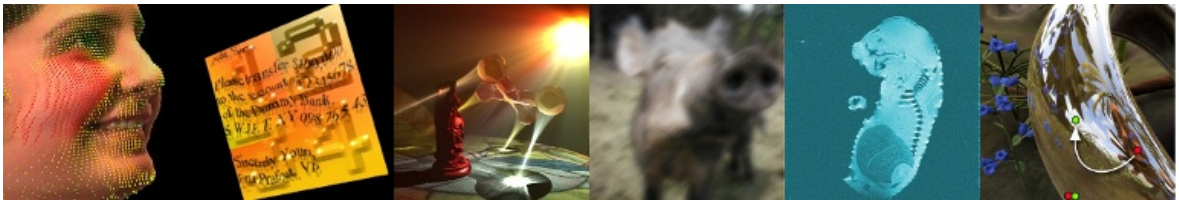


Breaking News

- **Information Meeting on Visual Computing**
  Mo, October 20, 14:15, Building E1.1, Room 306
  All Visual Computing students and other interested people are welcome.

List of Classes Offered in the Winter Semester 2008 / 2009

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Introduction to Image Acquisition Methods (4 CP)
      Classroom lectures (2h) given by A. Bruhn
      We 14-16, Building E1.3, Lecture Hall 001
    - Nonlinear Computational Geometry (6 CP)
      Course given by M. Hemmer and M. Sagraloff
      Fr 10-12, Building E1.4 (MPI), Room 024
    - Ultraschall-Messtechnik (Ultrasound Measurement Technologies) (4 CP)
      Classroom lectures (2h) given by R. Lemor
      Mo 16:30-18, Building A5.1, Room -1.22
  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Weickert
      Tu, Th 10-12, Building E1.3, Lecture Hall 002
    - Probabilistic Methods in Image Analysis (6 CP)
      Classroom lectures (3h) with tutorials (1h) given by B. Burgeth
      Tu 12-14, Fr 8-10, Building E1.3, Lecture Hall 001
    - Pattern and Speech Recognition (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by D. Klakow
      Tu 14-16, Building C7.2, Seminar Room
  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Computer Graphics (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Slusallek
      Mo, Th 8-10, Building E1.3, Lecture Hall 002
  - **Seminars:**
    (You need at least 8 graded CP from this category.)
    - Modern Methods in Image Analysis (8 CP)
      Seminar given by A. Bruhn and J. Weickert
      Tu, 16-18, Building E1.1, Room 306
    - Seminar on Computer Graphics (8 CP)
      Seminar given by P. Slusallek
      Time and location to be announced

        - Seminar on Simulated Reality (8 CP)
          Seminar given by G. Demme, R. Jochem and H. Hoffmann
          Time and location by appointment

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
    - Telecommunications I (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by T. Herfet
      Tu, We 8-10, Building E1.3, Lecture Hall 001
    - Machine Learning (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by M. Hein
      We, Fr 10-12, Building E1.3, Lecture Hall 003
    - Music Information Retrieval (8 CP)
      Seminar given by M. Müller
      Thu. 16-18, Building E1.4 (MPI), Room 23
    - Future Media Internet (FMI) (Video- and Audiotransport - A New Paradigm) (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by T. Herfet
      Tu, We 12-14, Building E1.3, Lecture Hall 003
    - Advanced Cryptography (6 CP)
      Block course in the lecture-free period (march 2009) given by M. Backes
      by appointment
    - Zerstörungsfreie Prüfverfahren Teil II
      Classroom lectures (2h) given by U. Rabe
      Prospective Th 8:30-10, Building E3.1, Seminar Room, begin by appointment
    - Praktikum Zerstörungsfreie Prüfverfahren Teil II
      Block course in the lecture-free period given by U. Rabe
      IZFP, Campus E31, begin is the 16th february 2009

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
    - Classes in Mathematics:
        - Numerical Algorithms for Visual Computing II (6 CP)
          Classroom lectures (2h) with tutorials (2h) given by M. Breuß
          Mo 14-16, Building E1.3, Lecture Hall 001
        - Stable Methods for Least-Squares Problems (3 CP)
          Classroom lectures (2h) given by A. Lakhal
          We 10-12, Building E2.4, Lecture Hall 4
        - A Posteriori Estimates for Partial Differential Equations (3 CP)
          Classroom lectures (4h) with tutorials (2h) given by S. Repin
          First meeting: Friday, July 24, 2008, 12:00h, Bld. E2.5, Lecture hall 1,
          place and time for lecture and tutorials are fixed after the first meeting
        - Theorie und Numerik Gewöhnlicher Differentialgleichungen (9 CP)
          Classroom lectures (4h) with tutorials (2h) given by V. John
          We 12-14, Th 14-16, Building E2.5, Lecture Hall 1
        - Integraltransformationen: Theorie, Numerik und Anwendungen (9 CP)
          Classroom lectures (4h) with tutorials (2h) given by A. Louis
          Tu 14-16, Th 10-12, Building E2.5, Lecture Hall 2
        - Optimierung II (3 CP)
          Classroom lectures (2h) given by A. Louis
          by appointment
        - Partielle Differentialgleichungen I(9 CP)
          Classroom lectures (4h) with tutorials (2h) given by M. Groves

Mo, We 10-12, Building E1.3, Lecture Hall 3
- Stochastik (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by A. Meister
  Mo 10-12, Building E2.4, Lecture Hall 4, and We 10-12, Building E2.5, Lecture Hall 3
- Nichtparametrische Dichteschätzung (5 CP)
  Classroom lectures (2h) given by A. Meister
  Mo 14-16, Building E2.4, Lecture Hall 4

- Classes in Computer Science:
  - Embedded Systems (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by B. Finkbeiner
    Tu, Th 14-16, Building E1.3, Lecture Hall 002
  - Computer Architecture 2 (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by W. Paul
    Mo, We 10-12, Building E1.3, Lecture Hall 001
  - Massively Parallel Computing with CUDA (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by H. Lensch and R. Strzodka
    Mo 10-12, Building E1.4, Room 024
  - Grundzüge von Algorithmen und Datenstrukturen (6 CP)
    Classroom lectures (2h) with tutorials (1h) given by R. Seidel
    Th 12-14, Building E2.5, Lecture Hall 001
  - Programmierung I (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by G. Smolka
    Tu 14-16, Th 10-12, Building E2.5, Lecture Hall I
- Classes in Mechatronics:
  - Grundlagen der Signalverarbeitung (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by D. Klakow
    Mo 10-12, Building A5.1, Lecture Hall -1.03
- Classes in Physics:
  - Elementare Einführung in die Physik I (4 CP)
    Classroom lectures (2h)
    We 10-12, Building C6.3, Großer Hörsaal
  - Physik für Ingenieure I (5 CP)
    Classroom lectures (2h) with tutorials (1h)
    Fr 15-17, Building C6.3, Großer Hörsaal

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)
  - Work as a tutor (4 CP)
  - German as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science
  - English as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science
  - The International Office of Saarland University offers a number of foreign and German language courses .
  - Classes on other foreign languages are offered by the Language Center .
  - Any of the classes of the first three categories.
  - Classes in humanities (cognitive science, etc.) after approval in advance .

  A detailed description of the contents of these classes can be found in our Handbook of Module Descriptions .

  The campus map may help you to localise the individual buildings. If you spot some errors or have proposals for adding additional classes to this list, please contact Joachim Weickert .

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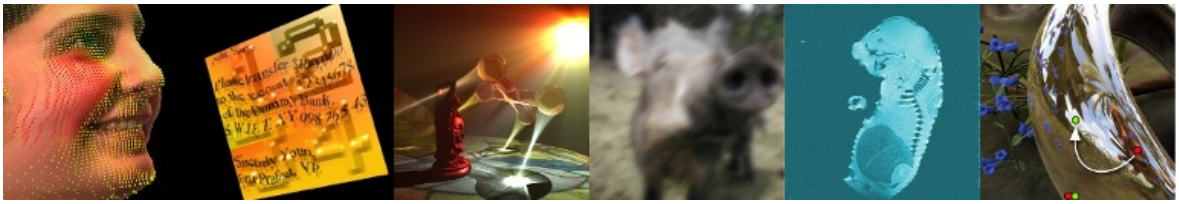

- **Information Meeting on Visual Computing**
  Monday, April 20, 2:15 pm in E1.1, Room 306
  All Visual Computing students and other interested people are welcome.

List of Classes Offered in the Summer Semester 2009

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Algorithmic Geometry (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by R. Seidel
      Tu 14-16, Th 8-10, Building E1.3, Lecture Hall 003
    - Akustische Abbildungsverfahren (4 CP)
      Classroom lectures (2h) given by S. Hirsekorn
      Th 14-16, Building E3.1, Seminar room of the IZFP
    - Röntgenprüfverfahren (4 CP)
      Classroom lectures (2h) given by U. Rabe
      Th 10-12, Building E3.1, Seminar room of the IZFP
      Note: On demand, the lecture can be given in English
    - Bildgebende Verfahren (NMR), Magnetic Resonance Imaging (4 CP)
      Classroom lectures (2h) given by F. Volke
      Th 16:30-18, IBMT St. Ingbert, Seminar room 1st floor
      Note: On demand, the lecture can be given in English
  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Differential Equations in Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Weickert
      Tu, Fr 10-12, Building E1.3, Lecture Hall 001
    - Correspondence Problems in Computer Vision (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by A. Bruhn
      We, 14-16, Building E1.3, Lecture Hall 001
    - Dynamical Systems and Image Processing (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by M. Welk
      Tu, Fr 14-16, Building E1.3, Lecture Hall 001
  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Realistic Image Synthesis (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Slusallek and K. Myszkowski
      Mo, We 10-12, Building E1.3, Lecture Hall 001
      (For a first impression of the content of the lecture click here .)
  - **Seminars:**
    (You need at least 8 graded CP from this category.)

- Seminar Optimisation for Visual Computing (8 CP)
  Seminar given by M. Breuß and B. Burgeth
  time slot to be announced, Building E1.1, Room 306
- Seminar on Computer Graphics (8 CP)
  Seminar given by P. Slusallek
  time and place to be announced
- Selected Topics (8 CP)
  Seminar given by T. Herfet
  time and location by appointment, see kick-off meeting
- Computer Vision and Visual Special Effects (8 CP)
  Seminar given by T. Thormählen and E. Eisemann
  Mo 16-18, Building E1.4 (Max-Planck-Institut), Room 024
- Geometric Correspondence Problems - from Shape Matching to 3D Movie Making (8 CP)
  Seminar given by M. Wand
  Time and location by appointment after first meeting, see www

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
  - Telecommunications II (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tu, We 8-10, Building E1.3, Lecture Hall 001
  - Music Processing (4 CP)
    Classroom lectures (2h) given by M. Müller
    Th 16-18, Building E 1.4 (MPI), Room 24
  - Statistical Natural Language Processing (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by D. Klakow
    Fr 8:30-10, Building C7 2, Seminar room
  - Search methods in Natural Language Processing (4 CP)
    Classroom lectures (2h) given by H. Horacek
    Tu 14-16, Building E1.3, Seminar room 015
  - Elements of Statistical Learning 1 (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by T. Lengauer
    We 10-12, Building E1.4 (MPI), Seminar room 0.24
  - Bayesian Machine Learning: Graphical Models and Approximate Inference (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by M. Seeger
    Fr 8-10, Building E1.4 (MPI), Seminar room 0.24
  - Grundlagen und Anwendungen der zerstörungsfreien Werkstoffprüfung und Qualitätssicherung, Teil I (4 CP)
    Classroom lectures (2h) given by C. Boller
    Th 8-10, Building E3.1, IZFP, Seminar room
  - Praktikum zu Zerstörungsfreie Prüfverfahren Teil I (4 CP)
    Block course offered by U. Rabe during the lecturing-free period,
    Begin: 03.08.2009, more details by appointment
  - Consider also specialised classes in computational linguistics.

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:
    - Numerical Algorithms for Visual Computing III (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by M. Breuß
      Th 10-12, Building E1.3, Lecture Hall 001

- Numerical Methods for Nonlinear Problems (4 CP)
  Classroom lectures (2h) given by A. Lakhal
  Th 10-12, Building E2.4, Lecture Hall IV
- Discrete Geometry (6 CP)
  Classroom lectures (2h) with tutorials (2h) given by R. Raman
  We 10-12, Building E1.4 (MPI), seminar room 0.24
- Numerik partieller Differentialgleichungen - eine elementare Einführung (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by V. John
  Tu 8-10, Building E2.4, Lecture Hall IV, Tu 8-10, Building E2.5, Lecture Hall III
- Optimierung (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by V. John
  Tu 12-14, We 10-12, Building E2.5, Lecture Hall 003
- Differentialgeometrie (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by M. Groves
  We 16-18, Th 8-10, Building E1.3, Lecture Hall 001
- Wahrscheinlichkeitstheorie und Statistik (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by C. Bender
  We 14-16, Building E2.5, Lecture Hall II, Th 14-16, Building E2.5, Lecture Hall III
- Funktionentheorie (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by R. Schulze-Pillot
  Mo 14-16, Building E2.5, Lecture Hall 003, We 12-14, Building E2.5, Lecture Hall 002,
  however, these times are negotiable, see information following the given link

- Classes in Computer Science:
  - Artificial Intelligence (9 CP)
    Block course offered by W. Wahlster during the lecturing-free period,
    August/September 2009
  - Computer Architecture I (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by W. Paul
    Mo, We 14-16, Building E1.3, Lecture Hall 003
  - Optimization (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by K. Elbassioni and J. Mestre
    Mo 8-10, Th 10-12, Building E1.3, Lecture Hall 002
  - Software Engineering (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by A. Zeller
    Tu, Th 8:30-10, Building E1.3, Lecture Hall 002
  - Selected Topics in Algorithms (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by K. Mehlhorn
    Mo, Fr 14-16, Building E1.4 (MPI), Seminar room 0.24
  - Programmierung II (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by S. Hack
    Tu 14-16, Fr 8-10, Building E2.5, Lecture Hall I
  - Systemarchitektur (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by R. Wilhelm
    Mo, We 8-10, Building E2.5, Lecture Hall I
  - Softwarepraktikum (9 CP)
    Block course (6 weeks) offered by A. Zeller during the lecturing-free period
    More details to be announced
    Attention: Earned credits are taken into account in the winter semester 2009/2010
  - Programmieren für Ingenieure (8 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tu 14-18, Building E1.3, Lecture Hall 002
- Classes in Mechatronics:

        - Digital Signal Processing (6 CP)
          Classroom lectures (2h) with tutorials (2h) given by D. Klakow
          Mo 10-12, Building A5.1, Lecture Hall -1.03
    - Classes in Physics:
        - Elementare Einführung in die Physik I (4 CP)
          Classroom lectures (2h) given by P. Huber
          We 10-12, Building C6.3, Großer Hörsaal
        - Physik für Ingenieure I (5 CP)
          Classroom lectures (2h) with tutorials (1h) given by R. Seemann
          Fr 15-17, Building C6.3, Großer Hörsaal

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)
    - Work as a tutor (4 CP)
    - German as a Foreign Language for CS Students (6 CP)
      Lectures (4h) offered by the Max Planck Institute for Computer Science
    - English as a Foreign Language for CS Students (6 CP)
      Lectures (4h) offered by the Max Planck Institute for Computer Science
    - The International Office of Saarland University offers a number of foreign and German language courses .
    - Classes on other foreign languages are offered by the Language Center .
    - Any of the classes of the first three categories.
    - Classes in humanities (cognitive science, etc.) after approval in advance .

  A detailed description of the contents of these classes can be found in our Handbook of Module Descriptions .

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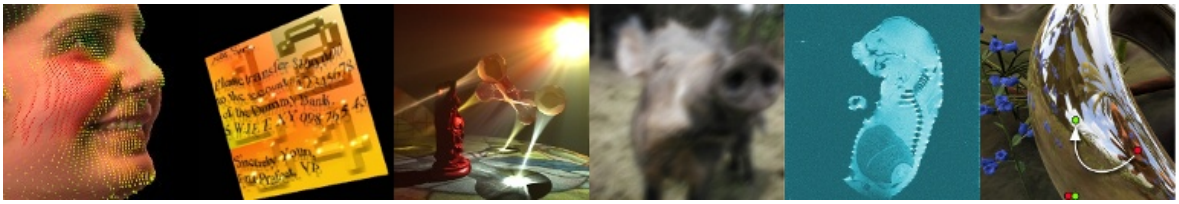


Breaking News

- **Information Meeting on Visual Computing**
  Our postponed Visual Computing Meeting will take place on Thursday, October 15, at 4:15 pm in E1.1, Room 306.
  All Visual Computing students and other interested people are welcome.

Preliminary List of Classes Offered in the Winter Semester 2009 / 2010

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Introduction to Image Acquisition Methods (4 CP)
      Classroom lectures (2h) given by A. Bruhn
      Tu 14-16, Building E1.3, Lecture Hall 001
    - Computational Geometry and Geometric Computing (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by E. Berberich, M. Sagraloff and K. Mehlhorn
      Mo, Fr 14-16, Building E1.3, Lecture Hall 003
    - Ultraschall-Messtechnik (Ultrasound Measurement Technologies) (4 CP)
      Classroom lectures (2h) given by R. Lemor
      Mo 16:30-18, Building A5.1, Room -1.22
  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Weickert
      Tu, Th 10-12, Building E1.3, Lecture Hall 002
    - Geometric Foundations of Computer Vision (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by M. Welk
      We 16-18, Building E1.3, Lecture Hall 003
    - Pattern and Speech Recognition (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by D. Klakow
      Tu 14-16, Building C7.2, Seminar Room
  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Computer Graphics (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Slusallek
      Mo, Th 8-10, Building E1.3, Lecture Hall 002
    - Character Animation (3 CP)
      Classroom lectures (2h) given by M. Kipp and A. Heloir
      Mo 14-16, Building E1.3, Lecture Hall 001
    - Special Topics in Scientific Visualization (3 CP)
      Classroom lectures (2h) given by J. Krüger
      We 14-16, Building E 1.3, Lecture Hall 001

        - Scientific Visualization on Mobile Devices (6 CP)
          Lab course (4h) given by J. Krüger
          meetings by appointment, see webpage
    - **Seminars:**
      (You need at least 8 graded CP from this category.)
        - Seminar on Computer Graphics (8 CP)
          Seminar given by P. Slusallek
          Time and location to be announced
        - Seminar on Computational Photography and Videography (8 CP)
          Seminar given by C. Theobalt and I. Ihrke
          We 14-16, Building E1.4, Room 019
        - Seminar: Computertomographie (6 CP)
          Seminar given by A. Louis
          Tu 16-18, Building E2.4, Seminar Room 5

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
    - Telecommunications I (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by T. Herfet
      Tu, We 8-10, Building E1.3, Lecture Hall 001
    - Machine Learning (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by M. Hein
      We 14-16, Fr 10-12, Building E1.3, Lecture Hall 003
    - Elements of Statistical Learning 2 (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by T. Lengauer
      We 10-12, Building E1.4 (MPI), Seminar Room 0.24
    - Information Retrieval and Data Mining (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by G. Weikum
      Tu, Th 14-16, Building E1.4, Seminar Room 0.24
    - Music Processing (8 CP)
      Seminar given by M. Müller
      Thu. 15-18, bi-weekly, Building E1.4 (MPI), Room 24
    - Future Media Internet (FMI) (Video- and Audiotransport - A New Paradigm) (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by T. Herfet
      Tu, We 12-14, Building E1.3, Lecture Hall 003
    - Foundations of Cryptography (6 CP)
      Block course given by M. Backes
      in the lecturing-free period
    - Distant Speech Recognition (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by J. Mc Donough
      Tu, Th 14-16, Building C7.1, Seminar Room U15 (-1.15)
    - Zerstörungsfreie Prüfverfahren Teil II
      Classroom lectures (2h) given by C. Boller
      Prospective Th 8:30-10, Building E3.1, Seminar Room,
      beginning at the 22nd october
    - Praktikum Zerstörungsfreie Prüfverfahren Teil II
      Block course in the lecture-free period given by U. Rabe
      IZFP, Campus E3.1, begin is in february 2010

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
    - Classes in Mathematics:

- Mathematical Methods for Imaging (3 CP)
  Classroom lectures (2h) given by A. Lakhal
  We 10-12, Building E2.4, Seminar Room 3
  Attention: The time of this course has changed again!
- Fractional Differential Equations (8 CP)
  Seminar given by M. Welk
  Regular meetings to be appointed at first meeting
- Numerik Partieller Differentialgleichungen (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by S. Rjasanow
  Tu 14-16, Building E2.5, Lecture Hall 2, Th 8-10, Building E2.4, Seminar Room 5
- Theorie und Numerik Gewöhnlicher Differentialgleichungen (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by S. Rjasanow
  Tu 8-10, Th 14-16, Building E2.5, Lecture Hall 1
- Integralgleichungen: Theorie und Numerik (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by A. Louis
  Tu 8-10, Th 14-16, Building E2.5, Lecture Hall 3
- Partielle Differentialgleichungen I(9 CP)
  Classroom lectures (4h) with tutorials (2h) given by M. Fuchs
  Mo, Th 12-14, Building E2.4, Lecture Hall IV
- Stochastik (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by C. Bender
  Mo 14-16, We 8-10, Building E2.4, Lecture Hall IV

- Classes in Computer Science:
  - Algorithms and Data Structures (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Friedrich, F. Neumann, and R. van Stee
    Mo, We 12-14, Building E1.3, Lecture Hall 001
  - Optimization II (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by K. Elbassioni and J. Mestre
    Mo 10-12, Building E1.4, Seminar Room 0.24
  - Multicore System Architecture (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by W. Paul
    Mo, We 10-12, Building E1.3, Lecture Hall 001
  - Exploratory Data Analysis and Interactive Visualizations(9 CP)
    Classroom lectures (2h) with laboratory work (4h) given by M. Sips and A. Mazeika
    for more information see the webpage
  - Programmierung I (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by H. Hermanns
    Tu 14-16, Th 10-12, Building E2.5, Lecture Hall I
- Classes in Mechatronics:
  - Grundlagen der Signalverarbeitung (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by D. Klakow
    Mo 10-12, Building A5.1, Lecture Hall -1.03
- Classes in Physics:
  - Elementare Einführung in die Physik I (4 CP)
    Classroom lectures (2h) with tutorials (2h) given by A. Ott
    We 10-12, Building C6.4, Großer Hörsaal (0.12)
  - Physik für Ingenieure I (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by R. Seemann
    Fr 15-17, Building C6.4, Großer Hörsaal (0.12)

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)

- Work as a tutor (4 CP)
- German as a Foreign Language for CS Students (6 CP)
  Lectures (4h) offered by the Max Planck Institute for Computer Science
- English as a Foreign Language for CS Students (6 CP)
  Lectures (4h) offered by the Max Planck Institute for Computer Science
- The International Office of Saarland University offers a number of German language courses .
- Classes on other foreign languages are offered by the Language Center .
- Any of the classes of the first three categories.
- Classes in humanities (cognitive science, etc.) after approval in advance .

A detailed description of the contents of these classes can be found in our Handbook of Module Descriptions .

The campus map may help you to localise the individual buildings. If you spot some errors or have proposals for adding additional classes to this list, please contact Joachim Weickert .

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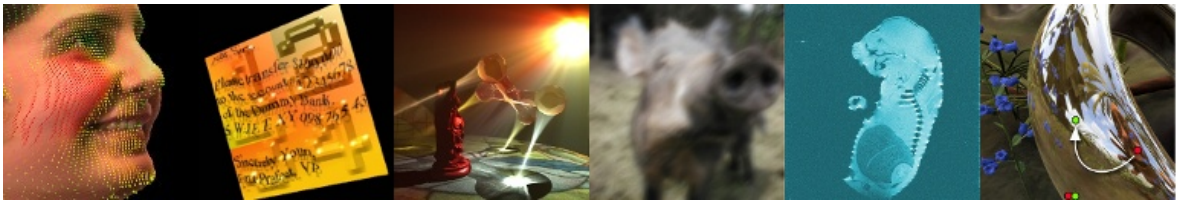

- **UPDATES**
  See the new information on "Programmieren für Ingenieure" and
  the **new seminar** "Recent Topics in Computer Graphics and Visualization".

List of Classes Offered in the Summer Semester 2010

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Computational Photography (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by I. Ihrke
      We 14-16, Building E 1.7, Room 001
    - Geometric Modeling (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by M. Wand
      Tu 14-16, Th 14-16, Building E1.4, Seminar Room 0.21
    - NMR-MRI Non-Invasive Image Acquisition (4 CP)
      Classroom lectures (2h) given by F. Volke
      Th 16:30-18, IBMT St. Ingbert, Ensheimer Str. 48, Saal 1, 1st floor
    - Akustische Abbildungsverfahren (4 CP)
      Classroom lectures (2h) given by S. Hirsekorn
      Th 14-16, Building E3.1, Seminar room of the IZFP
    - Röntgenprüfverfahren (4 CP)
      Classroom lectures (2h) given by U. Rabe
      Th 10-12, Building E3.1, Seminar room of the IZFP
      Note: On demand, the lecture can be given in English
  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Differential Equations in Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by A. Bruhn
      Tu, Fr 10-12, Building E1.3, Lecture Hall 001
    - Computer Vision and its Applications in Graphics (4 CP)
      Classroom lectures (2h) with homework assignments given by T. Thormählen
      Mo, 16-18, Building E1.4 (MPI), Room 024
  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Realistic Image Synthesis (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Slusallek, K. Myszkowski and V. Pegoraro
      Mo, We 10-12, Building E1.3, Lecture Hall 001
    - Computer Vision and its Applications in Graphics (4 CP)
      Classroom lectures (2h) with homework assignments given by T. Thormählen
      Mo, 16-18, Building E1.4 (MPI), Room 024

- **Seminars:**
  (You need at least 8 graded CP from this category.)
  - Seminar on Emerging Methods for Image Compression (8 CP)
    Seminar given by M. Mainberger, C. Schmaltz and M. Breuß
    Th, 16-18, Building E1.1, Room 306
  - Seminar on Computational Geometry and Geometric Computing (8 CP)
    Seminar given by E. Berberich, B. Galehouse and M. Sagraloff
    more information on time and place will be given in the first meeting April 14th, see webpage
  - Seminar on Recent Topics in Computer Graphics and Visualization (8 CP)
    Seminar given by J. Krüger
    First meeting at Th, 29th April, 14:00 s.t., MMCI Building E1.7, Room 3.01

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
  - Artificial Intelligence (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by W. Wahlster and M. Kipp
    Tu 12-14, Th 14-16, Building E1.3, Lecture Hall 002
  - Music Processing (4 CP)
    Classroom lectures (2h) given by M. Müller
    Th 16-18, Building E 1.4 (MPI), Seminar Room 0.24
  - Statistical Natural Language Processing (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by D. Klakow
    time and place: prospective Fr 8:30-10, Building C7 2, Seminar room
  - Bayesian Machine Learning: Graphical Models and Approximate Inference (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by M. Seeger
    Fr 8:30-10, Building E1.4 (MPI), Seminar Room 0.24
  - Informationsverarbeitung in der Produktionstechnik (6 CP)
    Classroom lectures (2h) and additional lab ("Praktikum") (2h) given by N. Avgustinov (English on request).
    Lectures: We 14-16, Building A4.2, Seminar Room 1.12.1. Lab: By appointment.
  - Grundlagen und Anwendungen der zerstörungsfreien Werkstoffprüfung und Qualitätssicherung, Teil I (4 CP)
    Classroom lectures (2h) given by C. Boller
    time and place: prospective Th 8-10, Building E3.1, IZFP, Seminar room
  - Praktikum zu Zerstörungsfreie Prüfverfahren Teil I (4 CP)
    Block course offered by U. Rabe during the lecturing-free period
  - Consider also specialised classes in computational linguistics.

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:
    - Numerical Algorithms for Visual Computing I (6 CP)
      Classroom lectures (3h) with tutorials (1h) given by M. Breuß
      Th 10-12, Fr 14-16, Building E1.3, Lecture Hall 001
    - Convex Optimization and Modelling (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by M. Hein
      We, 10-12, Building E1.3, Lecture Hall 003
    - Praktische Mathematik (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by A. Louis
      We 8-10, Tu 14-16, Building E2.5, Lecture Hall II

- Numerik linearer Gleichungssysteme (6 CP)
  Classroom lectures (2h) with tutorials (2h) given by F. Kemm
  Mo 16-18, Building E2.5, Lecture Hall III
- Modellieren mit partiellen Differentialgleichungen (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by S. Rjasanow
  We 8-10, Tu 14-16, Building E2.5, Lecture Hall III
- Optimierung (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by A. Louis
  Tu 14-16, Th 10-12, Building E2.5, Lecture Hall 003
- Differentialgeometrie (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by M. Groves
  Mo 16-18, Building E1.3, Lecture Hall 001, Fr 10-12, Building E1.3, Lecture Hall 003
- Minimalflächen (6 CP)
  Classroom lectures (2h) with tutorials (2h) given by M. Fuchs
  Th 10-12, Building E2.4, Seminar Room 3 (2.16)
- Partielle Differentialgleichungen II (9 CP)
  Classroom lectures (2h) with tutorials (2h) given by M. Fuchs
  Mo, Th 12-14, Building E2.4, Lecture Hall IV
- Stochastische Prozesse (5 CP)
  Classroom lectures (2h) with tutorials (1h) given by H. Zaehle
  Th 8-10, Building E2.4, Seminar Room 5 (2.15)
- Analysis auf Mannigfaltigkeiten (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by R. Grzibovskis
  We 14-16, Fr 14-16, Building E2.4, Seminar Room 5 (2.15)

- Classes in Computer Science:
  - Optimization (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by K. Mehlhorn, N. Megow, and J. Mestre
    Mo, We, 14-16, Building E1.3, Lecture Hall 003
  - Testing and Debugging (9 CP)
    Course offered by G. Fraser and A. Zeller
    details to be announced on the course web page
  - Systemarchitektur (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by W. Paul
    Mo, We, 8-10, Building E2.2, Lecture Hall
  - Softwarepraktikum (9 CP)
    Course offered by A. Zeller
    this course is usually offered as a block course during the lecturing-free period, more details to be announced
  - Programmierung II (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by S. Hack
    Tu 14-16, Fr 8-10, Building E2.2
  - Programmieren für Ingenieure (8 CP)
    (Programming for Engineers, slides are in English)
    Classroom lectures (2h) with tutorials (3h) given by J. Krüger
    Tu 14-18, Building E1.3, Lecture Hall 002
    Students should only attend this course if they do **not** have a Bachelor degree in Computer Science.
- Classes in Mechatronics:
  - Digital Signal Processing (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by D. Klakow
    Mo 10-12, Building A5.1, Lecture Hall -1.03
- Classes in Physics:

- Elementare Einführung in die Physik II (4 CP)
  Classroom lectures (2h) given by J. Eschner
  We 10-12, Building C6.4, Großer Hörsaal
- Physik für Ingenieure II (5 CP)
  Classroom lectures (2h) with tutorials (1h) given by R. Seemann
  Fr 15-17, Building C6.4, Großer Hörsaal

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)
  - Work as a tutor (4 CP)
  - German as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science
  - English as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science
  - The International Office of Saarland University offers a number of foreign and German language courses .
  - Classes on other foreign languages are offered by the Language Center .
  - Any of the classes of the first three categories.
  - Classes in humanities (cognitive science, etc.) after approval in advance .

  A detailed description of the contents of these classes can be found in our Handbook of Module Descriptions .

  The campus map may help you to localise the individual buildings. If you spot some errors or have proposals for adding additional classes to this list, please contact Joachim Weickert .

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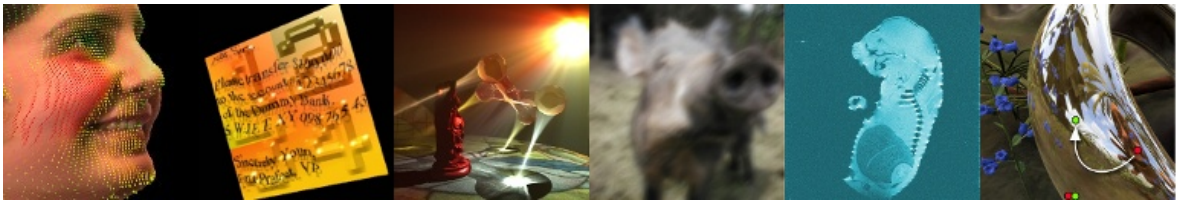

Breaking News

- **Information Meeting on Visual Computing**
  Monday, October 18, at 14:15 pm in E1.1, Room 306.
  All Visual Computing students and other interested people are welcome.

Preliminary List of Classes Offered in the Winter Semester 2010 / 2011

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Introduction to Image Acquisition Methods (4 CP)
      Classroom lectures (2h) given by O. Vogel
      We 16-18, Building E1.1, Room 3.06
    - Ultraschall-Messtechnik (Ultrasound Measurement Technologies) (4 CP)
      Classroom lectures (2h) given by R. Lemor
      Mo 16:30-18, Building A5.1, Room -1.22
  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by A. Bruhn
      Tu 14-16, Th 12-12, Building E1.3, Lecture Hall 002
    - Correspondence Problems in Computer Vision (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by H. Zimmer
      We, 14-16, Building E1.3, Lecture Hall 003
    - Image and Video Compression (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by C. Schmaltz
      Mo, 14-16, Building E1.3, Lecture Hall 3
    - Pattern and Speech Recognition (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by D. Klakow
      Tu 14-16, Building C7.2, Seminar Room
  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Computer Graphics (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Slusallek and V. Pegoraro
      Mo, We 14-16, Building E1.3, Lecture Hall 001
    - Special Topics in Scientific Visualization (3 CP)
      Classroom lectures (2h) given by J. Krüger
      We 14-16, Building E 1.3, Lecture Hall 001
  - **Seminars:**
    (You need at least 8 graded CP from this category.)
    - Recent Advances in Image Processing and Computer Vision (8 CP)
      Seminar given by M. Breuß and J. Weickert
      Tu, 16-18, Building E1.1, Room 306

        - Seminar on Texture Synthesis and Analysis Techniques for Images and 3D Geometry - from Automatic Photo Retouch to Inverse Procedural Modeling (8 CP)
          Seminar given by M. Wand
          Block seminar February 21st to 25th 2011, Campus E 1 4 (MPI Building), Room 024
        - Research Topics in Computational Photography (8 CP)
          Seminar given by I. Ihrke
          Mo 16-18, Building E1.7, Room 001
        - Recent Topics in Computergraphics and Visualization (8 CP)
          Seminar given by J. Krüger
          see webpage for more information
    - The Digital Video Broadcasting Project (8 CP)
      Seminar given by T. Herfet
      for more information, see the webpage of the course

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
    - Telecommunications I (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by T. Herfet
      Tu, We 8-10, Building E1.3, Lecture Hall 001
    - Machine Learning (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by M. Hein
      Mo, 10.15-12, Building E1.3, Lecture Hall 003, and Fr, 10.15-12, E1 3, Building E1.3, Lecture Hall 001
    - Future Media Internet (FMI) (Video- and Audiotransport - A New Paradigm) (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by T. Herfet
      Tu, We 12-14, Building E1.3, Lecture Hall 003
    - Text to Speech Synthesis (3 CP)
      Classroom lectures (2h) with tutorials (2h) given by B. Möbius
      We 16-18, Building E1.3, Lecture Hall 001
    - Mathematische Methoden der Bildrekonstruktion (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by A. Louis
      Tu 14-16, Building E1.3, Lecture Hall 001, Th 8-10, Building E1.3, Lecture Hall 003
    - Zerstörungsfreie Prüfverfahren Teil II
      Classroom lectures (2h) given by C. Boller
      Prospective Th 8:30-10, Building E3.1, Seminar Room,
      beginning in october
    - Praktikum Zerstörungsfreie Prüfverfahren Teil II
      Block course in the lecture-free period given by U. Rabe
      IZFP, Campus E3.1, begin is in february

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
    - Classes in Mathematics:
        - Convex Analysis for Image Processing (6 CP)
          Classroom lectures (2h) with tutorials (2h) given by S. Setzer
          Mo, Th 16-18, Building E1.3, Lecture Hall 001
        - Numerical Algorithms for Visual Computing II (6 CP)
          Classroom lectures (2h) with tutorials (2h) given by M. Breuß
          We, Fr 10-12, Building E1.3, Lecture Hall 003
        - Computational Methods for Inverse Problems (3 CP)
          Classroom lectures (2h) given by A. Lakhal

We 10-12, Building E2.4, Seminar Room 7
Attention: The time of this course has changed again!
- Numerical Methods for Partial Differential Equations (6 CP)
  Classroom lectures (4h) with tutorials (2h) given by F. Kemm
  We 14-16, Building E2.4, Seminar Room 7
- Theorie und Numerik Gewöhnlicher Differentialgleichungen (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by A. Louis
  Tu 8-10, Th 14-16, Building E1.3, Lecture Hall 002
- Partielle Differentialgleichungen I (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by M. Groves
  Mo, Th 12-14, Building E2.4, Lecture Hall IV
- Stochstische Numerik (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by S. Rjasanow
  Di 8-10, Th 14-16, Building E1.3, Lecture Hall 001
- Freie Randwertprobleme (4 CP)
  Classroom lectures (2h) with tutorials given by D. Apushkinskaya
  Di 12-14, Building E2.4, Lecture Hall IV
- Stochastik (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by H. Zähle
  Mo 14-16, We 8-10, Building E2.4, Lecture Hall IV

- Classes in Computer Science:
  - Optimization II: Approximation and Online Algorithms (9CP)
    Classroom lectures (4h) with tutorials (2h) given by K. Mehlhorn, C.-C. Huang, and R. van Stee
    Tu 10-12, Th 12-14, Building E1.4, Lecture Room 023
  - Models of Computation: An Algorithmic Perspective (9CP)
    Classroom lectures (4h) with tutorials (2h) given by K. Mehlhorn, K. Panagiotou, and R. Spöhel
    Mo 14-16, Th 14-16, Building E1.4, Lecture Room 0.24
  - Embedded Systems (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by R. Wilhelm and C. Steger
    Tu 10-12, Th 14-16, Building E1.3, Lecture Hall 003
  - Grundzüge von Algorithmen und Datenstrukturen (6 CP)
    Classroom lectures (2h) with tutorials (1h) given by M. Bläser
    Th 12-14, Building E1.3, Lecture Hall 002
  - Programmierung 2 (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by S. Hack
    Mo 14-16, Building E1.3, Lecture Hall 002, and Th 14-16, Building E2.2, Lecture Hall
- Classes in Mechatronics:
  - Grundlagen der Signalverarbeitung (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by D. Klakow
    Mo 10-12, Building A5.1, Lecture Hall -1.03
- Classes in Physics:
  - Elementare Einführung in die Physik I (4 CP)
    Classroom lectures (2h) with tutorials (2h) given by R. Birringer
    We 10-12, Building C6.4, Großer Hörsaal (0.12)

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)
  - Work as a tutor (4 CP)
  - German as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science

- English as a Foreign Language for CS Students (6 CP)
  Lectures (4h) offered by the Max Planck Institute for Computer Science
- The International Office of Saarland University offers a number of German language courses .
- Classes on other foreign languages are offered by the Language Center .
- Any of the classes of the first three categories.
- Classes in humanities (cognitive science, etc.) after approval in advance .

A detailed description of the contents of these classes can be found in our Handbook of Module Descriptions .

The campus map may help you to localise the individual buildings. If you spot some errors or have proposals for adding additional classes to this list, please contact Joachim Weickert .

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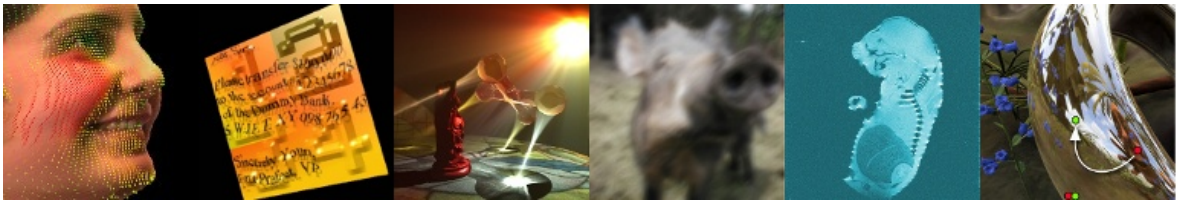

- **Information Meeting on Visual Computing**
  Monday, April 11, 2:15 pm in E1.1, Room 306
  All Visual Computing students and other interested people are welcome.

Preliminary List of Classes Offered in the Summer Semester 2011

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Computational Photography (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by I. Ihrke
      Mo 10-12, Building E 1.4 Raum 024
    - Acquisition, Analysis and Management of Biological Image Data (5 CP)
      Classroom lectures (2h) with tutorial (1h) given by O. Müller
      We 16-18, Building E2.1 Seminar Room 0.07
    - NMR-MRI Non-Invasive Image Acquisition (4 CP)
      Classroom lectures (2h) given by F. Volke
      Th 16:30-18, IBMT St. Ingbert, Ensheimer Str. 48, Saal 1, 1st floor
    - Akustische Abbildungsverfahren (4 CP)
      Classroom lectures (2h) given by S. Hirsekorn
      Th 14-16, Building E3.1, Seminar room of the IZFP
    - Röntgenprüfverfahren (4 CP)
      Classroom lectures (2h) given by U. Rabe
      Th 10-12, Building E3.1, Seminar room of the IZFP
      Note: On demand, the lecture can be given in English
  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Differential Equations in Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Weickert
      Tu, Fr 10-12, Building E1.3, Lecture Hall 001
    - Advanced Image Analysis (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by H. Zimmer
      Th 10-12, Building E2.4, Seminar Room 5
    - High-Level Computer Vision (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by B. Schiele
      We 14-16, Building E1.4, Seminar Room 0.24
  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Realistic Image Synthesis (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Slusallek
      Mo, We 10-12, Building E1.3, Lecture Hall 003
  - **Seminars:**
    (You need at least 8 graded CP from this category.)

- Spotlight on Vision (8 CP)
  Seminar given by A. Bruhn
  We 16-18, Building E1.1, Room 306
- Speech and Gaze in Virtual Agents (8 CP)
  Seminar given by A. Heloir, M. Staudte, M. Kipp and M. Crocker
  Kick off: Thursday April 14th, 14-16, Room U.15, Computer Linguistics building C 7.1.
  More details can be found on the course webpage.
- Linking Virtual and Real World through Android Applications (8 CP)
  Seminar given by D. Heckmann
  Kickoff: Tuesday April 12th, 16-18, DFKI-Building D 3.2, Room +2.30 "Turing".
  Details to be announced there.
- Scene Understanding Techniques for Geometric and Visual Data Sets (8 CP)
  Seminar given by M. Wand
  First meeting: Wednesday June 15 at 14ct in the MPI building E1 4, Room 021.
  You may pre-register. Details can be found on the course webpage.
- Seminar on Current methods and Open Questions in Scientific Visualization (8 CP)
  Seminar given by J. Krüger
  First meeting: April 13th, 16:00 s.t., DFKI Building D 3.4, Room 2.31 (Turing 2).
  More details to be announced on the course webpage.
- Seminar on Computer Vision for Computer Graphics (8 CP)
  Seminar given by C. Theobalt
  First meeting: April 15th (time and place as usual for this seminar).
  Fr 14-16, Building E 1.4 (Max-Planck-Institute), Room 019

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
  - Telecommunications II (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tu, We 8:30-10, Building E1.3, Lecture Hall 001
  - Artificial Intelligence (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by W. Wahlster
    We,Th 16-18, Building E1.3, Lecture Hall 002
  - Statistical Natural Language Processing (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by D. Klakow
    Fr 8:30-10, Building C7 2, Seminar room 1.12
  - Inferences in Artificial Intelligence and Computational Linguistics (4 CP)
    Classroom lectures (2h) given by H. Horacek
    We 16-18, Building E1.3, Seminar room 016
  - Elements of Statistical Learning 1 (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by T. Lengauer
    First lecture: April 13th, 2011 in E2.1, Room 001.
    Regular schedule: We 10-12, Building E2.1 (MPI), Seminar Room 0.07
  - Informationsverarbeitung in der Produktionstechnik II (6 CP)
    Classroom lectures (2h) and additional lab ("Praktikum") (2h) given by N. Avgustinov (English on request).
    Lectures: We 14-16, Building A4.2, Seminar Room 1.12.1. Lab: By appointment.
  - Grundlagen und Anwendungen der zerstörungsfreien Werkstoffprüfung und Qualitätssicherung, Teil I (4 CP)
    Classroom lectures (2h) given by C. Boller
    Time and place: Th 8-10, Building E3.1, IZFP, Seminar room
  - Praktikum zu Zerstörungsfreie Prüfverfahren Teil I (4 CP)
    Block course offered by U. Rabe during the lecturing-free period
  - Consider also specialised classes in computational linguistics.

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:
    - Fast Fourier Transforms (6 CP)
      Course offered by A. Pospelov
      Block course during the lecturing-free period in August. For more details see the webpage
    - Wavelets and Sparsity (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by S. Setzer
      Tu 12-14, Fr 14-16, Building E1.3, Lecture Hall 001
    - Numerical Algorithms for Visual Computing III (6 CP)
      Classroom lectures (3h) with tutorials (1h) given by M. Breuß
      Lecture: Th 12-14, Building E2.4, Lecture Hall IV, Tutorial/Lecture: Mo 14-16, Building E1.3, Seminar Room 015
    - Graph Theory (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by B. Doerr, D. Hermelin and R. Spöhel
      Tu, Th 10-12, Building E1.4, Room 0.24 (main lecture hall)
    - Praktische Mathematik (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by S. Rjasanow
      First lecture: April 14th in the main lecture hall in Building C6.3.
      Regular schedule: Tu 8-10, Th 14-16, Building E1.3, Lecture Hall II
    - Elementarkurs Partielle Differentialgleichungen (4 CP)
      Classroom lectures (2h) given by D. Apushkinskaya
      Mo 12-14, Building E2.4, Lecture Hall IV
    - Numerik partieller Differentialgleichungen (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by S. Rjasanow
      Tu 14-16, Th 8-10, Building E1.3, Lecture Hall 003
    - Differentialgeometrie (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by M. Fuchs
      Mo 12-14, Fr 10-12, Building E1.3, Lecture Hall 003
    - Partielle Differentialgleichungen II (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by M. Fuchs
      Mo, We 10-12, Building E2.4, Seminar Room SR 7
    - Funktionentheorie (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by M. Groves
      Mo 14-16, Fr 8-10, Building E1.3, Lecture Hall 003
  - Classes in Computer Science:
    - Graph Theory (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by B. Doerr, D. Hermelin and R. Spöhel
      Tu, Th 10-12, Building E1.4, Room 0.24 (main lecture hall)
    - The Probabilistic Method and Randomised Algorithms (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Gao, X. P. Gimenez and T. Sauerwald
      Tu 12-14, Building E1.7, Room 3.23, Th 12-14, Building E1.7, Room 0.01
    - Optimization (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by K. Elbassioni and A. van Zuylen
      Tu, Th 14-16, Building E1.3, Lecture Hall 001
    - Programmierung II (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by S. Hack

Tu 14-16, Fr 8-10, Building E2.2, Lecture Hall 0.01 (Audimo)
- Computer Architecture I (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by W. Paul
  Mo, We, 14-16, Building E1.3, Lecture Hall 001
- Hardwaredesignpraktikum (6 CP)
  Block course during the early lecturing-free period in March given by W. Paul
  for more details see the webpage
- Softwarepraktikum (9 CP)
  Course offered by A. Zeller
  Block course during the lecturing-free period, for more details see the webpage
- Programmieren für Ingenieure (8 CP)
  (Programming for Engineers, slides are in English)
  Classroom lectures (2h) with tutorials (3h) given by P. Slusallek and M. Backes
  Tu 14-18, Building E1.3, Lecture Hall 002
  Students should only attend this course if they do **not** have a Bachelor degree in Computer Science.

- Classes in Mechatronics:
  - Digital Signal Processing (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by D. Klakow
    Mo 10-12, Building A5.1, Lecture Hall -1.03
- Classes in Physics:
  - Elementare Einführung in die Physik II (4 CP)
    Classroom lectures (2h) given by R. Birringer
    Mo 10-12, Building C6.4, Großer Hörsaal
  - Physik für Ingenieure II (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by R. Seemann
    Fr 12-14, Building C6.4, Großer Hörsaal

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)
  - Work as a tutor (4 CP)
  - German as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science
  - English as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science
  - The International Office of Saarland University offers a number of foreign and German language courses .
  - Classes on other foreign languages are offered by the Language Center .
  - Any of the classes of the first three categories.
  - Classes in humanities (cognitive science, etc.) after approval in advance .

A detailed description of the contents of these classes can be found in our Handbook of Module Descriptions .

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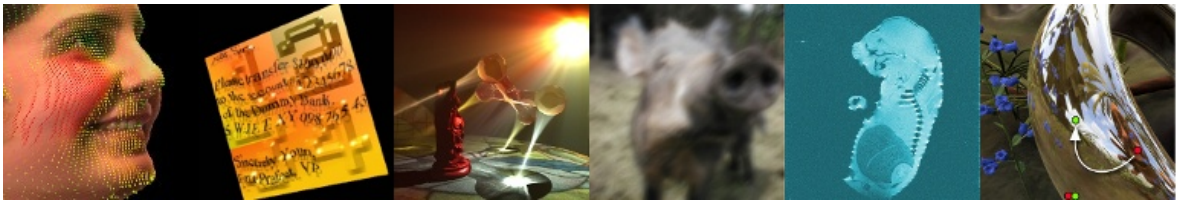

Breaking News

- **Information Meeting on Visual Computing**
  Our Visual Computing Meeting will take place on Monday, October 17, at 2:15 pm in E1.1, Room 306.
  All Visual Computing students and other interested people are welcome.

Preliminary List of Classes Offered in the Winter Semester 2011 / 2012

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Image Acquisition Methods (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by S. Setzer
      We 10-12, Building E1.3, Lecture Hall 001
    - Statistical Geometry Processing (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by M. Wand
      Tu 16-18, Building E1.4, Seminar room 0.24
    - Ultraschall Imaging (4 CP)
      Classroom lectures (2h) given (in German) by B. Kleffner
      Mo 16:30-18, Building A5.1, Room -1.22
  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Weickert
      Tu, Th 10-12, Building E1.3, Lecture Hall 002
    - Correspondence Problems in Computer Vision (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by A. Bruhn
      Fr, 10-12, Building E1.3, Lecture Hall 001
    - Image Compression (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by C. Schmaltz
      Th 8-10, Building E1.3, Lecture Hall 003
    - Capturing Reality - 3D Reconstruction of Real World Scenes (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by C. Theobalt
      Th 14-16, Building E 1.4, Seminar Room 0.24
    - Probabilistic Graphical Models and their Applications (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by B. Schiele
      Tu 14-16, Building E1.4, Seminar room 0.24
    - Pattern and Speech Recognition (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by D. Klakow
      Tu 14-16, Building C7.2, Seminar Room
  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)

    - Computer Graphics (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Slusallek
      Mo, We 14-16, Building E1.3, Lecture Hall 001
    - Scientific Visualization (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Krüger and T. Weinkauf
      We, Fr 14-16, Building E 1.3, Lecture Hall 003
  - **Seminars:**
    (You need at least 8 graded CP from this category.)
    - Classics in Image Processing (8 CP)
      Seminar given by S. Setzer and J. Weickert
      Tu, 16-18, Building E1.1, Room 306
    - Seminar on Digital Data Communication (8 CP)
      Seminar given by T. Herfet
      for more information see the course webpage
    - Research Topics in Computational Photography (8 CP)
      Seminar given by I. Ihrke
      Fr 16-18, Building E1.7, Room 001
    - Seminar on Geometry of Non-Rigid Shapes (8 CP)
      Seminar given by S. Wuhrer
      for more information, see the webpage; first meeting is Friday, October 21, from 10.00-12.00 in Building E1.7, Room 0.01

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
  - Telecommunications I (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tu 12-14, We 8-10, Building E1.3, Lecture Hall 003
  - Machine Learning (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by M. Hein
    Tu 8-10, Th 12-14, Building E1.3, Lecture Hall 001
  - Statistical Learning 2 (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by T. Lengauer
    We 10-12, Building E2.1 (CBI building), Room 007
  - Information Retrieval and Data Mining (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by P. Miettinen and M. Theobald
    Tu 14-16, Th 16-18, Building E1.3, Lecture Hall 003
  - Information Extraction (3 CP)
    Classroom lectures (2h) given by G. Neumann
    Fr 12-14, Building C7.2, Seminar room 1.12
  - Text to Speech Synthesis (3 CP)
    Classroom lectures (2h) given by B. Möbius
    Tu 16-18, Building E1.3, Lecture Hall 001
  - Future Media Internet (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tu 14-16, We 12-14, Building C6.3, Seminar Room 9.05
  - Informationsverarbeitung in der Produktionstechnik I (3 CP)
    Classroom lectures (2h) given by N. Avgoustinov
    The course takes place in Building E3.1 (IZFP), small seminar room, We 10-12; the time as well as the place of meetings may change by appointment.
    The course is given in English on demand.
  - Zerstörungsfreie Prüfverfahren Teil II
    Classroom lectures (2h) given by C. Boller
    Th 8:30-10, Building E3.1 (IZFP), Seminar Room

- Praktikum Zerstörungsfreie Prüfverfahren Teil II
  Block course in the lecture-free period given by U. Rabe
  Building E3.1 (IZFP), Seminar room, starts in February 2012

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:
    - Mathematical Foundations of Computer Vision (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by M. Breuß
      Mo 16-18, Building E1.3, Lecture Hall 003
    - Optimal Control (3 CP)
      Classroom lectures (2h) given by A. Lakhal
      Tu 13-15, Building E2.4, Seminar Room 6 (216)
    - Spectral Graph Theory and Applications (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by H. Sun and T. Sauerwald
      We 14-16, Building E1.4, Seminar Room 0.24
    - Minimalflächen (Engl. Minimal Surfaces) (5 CP)
      Block course by appointment given by M. Bildhauer, on demand the course is given in English
      for more information, see the course webpage
    - Theorie und Numerik Gewöhnlicher Differentialgleichungen (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by S. Rjasanow
      Tu 8-10, Th 14-16, Building E1.3, Lecture Hall 002
    - Variationsrechnung und nichtlineare Differentialgleichungen (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by M. Fuchs
      Fr 10-12, Building E2.4, Seminar room 7
    - Partielle Differentialgleichungen I (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by M. Herrmann
      Mo, Th 12-14, Building E2.4, Lecture Hall IV
    - Stochastik (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by H. Zähle
      Tu 8-10, Th 14-16, Building E2.4, Seminar room 5
  - Classes in Computer Science:
    - Algorithms and Data Structures (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by R. Seidel
      We 16-18, Building E2.2, Lecture Hall 001 (Audimo), Fr 8-10, Buidling E1.3, Lecture Hall 003
    - Optimization II (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by K. Elbassioni and S. Ray
      We 16-18, Building E1.4, Lecture room 023
    - Spectral Graph Theory and Applications (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by H. Sun and T. Sauerwald
      We 14-16, Building E1.4, Seminar Room 0.24
    - Computer Architecture 2 (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by W. Paul
      Tu, Th 14-16, Building E1.3, Lecture Hall 001
    - Programmierung I (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by H. Hermanns
      Tu 14-16, Th 10-12, Building E2.2, Lecture Hall 0.01 (Audimo)
  - Classes in Mechatronics:
    - Grundlagen der Signalverarbeitung (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by D. Klakow

Mo 10-12, Building A5.1, Lecture Hall -1.03
- Classes in Physics:
  - Elementare Einführung in die Physik I (4 CP)
    Classroom lectures (2h) with tutorials (2h) given by C. Wagner
    We 10-12, Building C6.4, Großer Hörsaal (0.12)

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)
  - Work as a tutor (4 CP)
  - German as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science
  - English as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science
  - The International Office of Saarland University offers a number of German language courses .
  - Classes on other foreign languages are offered by the Language Center .
  - Any of the classes of the first three categories.
  - Classes in humanities (cognitive science, etc.) after approval in advance .

  A detailed description of the contents of these classes can be found in our Handbook of Module Descriptions .

  The campus map may help you to localise the individual buildings. If you spot some errors or have proposals for adding additional classes to this list, please contact Joachim Weickert .

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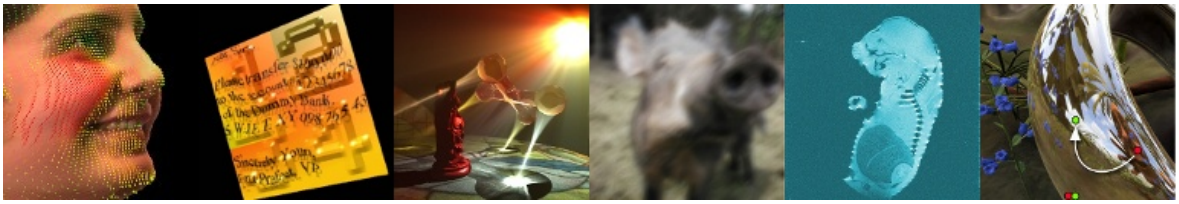

- **Information Meeting on Visual Computing**
  Monday, April 16, 2:15 pm in E1.1, Room 306
  All Visual Computing students and other interested people are welcome.

Preliminary List of Classes Offered in the Summer Semester 2012

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Computational Photography (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by I. Ihrke
      Mo 10-12, Building E 1.7, Room 001
    - Geometric Modeling (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by M. Wand
      Tu 14-16, Building E1.4, Seminar Room 0.21, Thu 16-18h, Building E1 4, Seminar Room 0.24
    - Akustische Abbildungsverfahren (4 CP)
      Classroom lectures (2h) given by S. Hirsekorn
      First lecture 3rd of May.
      Th 14-16, Building E3.1, Seminar room of the IZFP
    - Röntgenprüfverfahren (4 CP)
      Classroom lectures (2h) given by U. Rabe
      Th 10-12, Building E3.1, Seminar room of the IZFP
      Note: On demand, the lecture can be given in English
  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Differential Equations in Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Weickert
      Tue, Fri 10-12, Building E1.3, Lecture Hall 001
    - Advanced Image Analysis (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by C. Schmaltz
      Thu, Mon 10-12, Building E2.1, Seminar Room 0.01
    - High-Level Computer Vision (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by B. Schiele and M. Fritz
      Wed 14-16, Building E1.4, Seminar Room 0.24
  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Realistic Image Synthesis (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Slusallek and K. Myszkowski
      Mon, Wed 10-12, Building E1.3, Lecture Hall 001
    - Interactive Image Synthesis (5 CP)
      Classroom lectures (3h) given by J. Krüger

Tu 13-14, Building E1.7 (MMCI), Room 323, Thu 12-14, Building E1.7 (MMCI), Room 001

- **Seminars:**
  (You need at least 8 graded CP from this category.)
  - Hot Topics in Image Analysis (8 CP)
    Seminar given by S. Setzer and O. Demetz
    We 16-18, Building E1.1, Room 306
  - Current methods and Open Questions in Scientific Visualization (8 CP)
    Seminar given by J. Krüger
    First meeting: April 13th, 16:00 s.t., DFKI Building D 3.4, Room 2.31 (Turing 2).
    More details to be announced on the course webpage.
  - Recent Topics in Computergraphics and Visualization (8 CP)
    Seminar given by J. Krüger
    More details to be announced on the course webpage.
  - Visual Computing Techniques for Efficient Content Production (8 CP)
    Seminar given by T. Thormählen and T. Ritschel
    First meeting: April 23rd in Building E1.4 (MPI), Room 019.
    Mo 16-18, Building E1.4 (MPI), Room 024
  - Statistical Shape Analysis - or - How to Build a Digital Clone Using Simple Modalities (8 CP)
    Seminar given by S. Wuhrer
    First meeting: April 18th, 14-16, Building E1.7, Room 0.01.
    More details to be announced on the course webpage.
  - Graphics, Vision and Video - Interdisciplinary Topics in Visual Computing (8 CP)
    Seminar given by C. Theobalt and L. Valgaerts
    Thu 14-16, Building E1.4, Room 019
    First meeting: April 17th
    More details to be announced on the course webpage.

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
  - Telecommunications II (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tu 12-14, We 8-10, Building C6.3, Seminar Room 9.05
  - Artificial Intelligence (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by W. Wahlster and J. Hoffmann
    Tu 12-14, We 16-18, Building E1.3, Lecture Hall 002
  - Statistical Natural Language Processing (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by D. Klakow
    Fr 8:30-10, Building C7.2, Seminar room 1.12
  - Search in Natural Language Processing (NLP) (4 CP)
    Classroom lectures (2h) given by H. Horacek
    We 16-18, Building E1.7, Room 001
  - Elements of Statistical Learning 1 (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by T. Lengauer
    We 10-12, Building E2.1 (MPI), Seminar Room 0.07
  - Informationsverarbeitung in der Produktionstechnik II (4 CP)
    Lab course (2h) ("Praktikum") given by N. Avgoustinov (English on request).
    We 10-12, Building E3.1, Small Seminar Room.
  - Grundlagen und Anwendungen der zerstörungsfreien Werkstoffprüfung und Qualitätssicherung, Teil I (4 CP)
    Classroom lectures (2h) given by C. Boller
    Time and place: Th 8:30-10, Building E3.1, IZFP, Seminar room
    Students interested in an additional lab course shall ask for it in the first lecture at April 19th.

- Neural and Cognitive Systems (5 CP)
  Block course offered by D. J. Strauss
  June 25th-July 15th at the Neurocenter (Building 90.5) of the Saarland University Hospital in Homburg.
  For question please contact Corinna Bernarding
- Auditory Processing and Perception (4 CP)
  Block course offered by F. I. Corona-Strauss
  June 4th-June 17th at the Neurocenter (Building 90.5) of the Saarland University Hospital in Homburg.
  For question please contact Corinna Bernarding
- Consider also specialised classes in computational linguistics.

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:
    - Wavelets and Sparsity (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by S. Setzer and L. Hoeltgen
      Tue 12-14, Thu 14-16, Building E1.3, Lecture Hall 001
    - Convex Optimization (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by M. Hein
      Tue, 14-16, Building E1.3, Lecture Hall 001
    - Praktische Mathematik (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by S. Rjasanow
      Tu 8-10, Th 14-16, Building E2.5, Lecture Hall II
    - Darstellungsmethoden für Lösungen linearer partieller Differentialgleichungen (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by D. Apushkinskaya
      Th 10-12, Building E2.4, Seminar Room 5
    - Modellieren mit partiellen Differentialgleichungen (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by S. Rjasanow
      Tu 14-16, Th 8-10, Building E2.5, Lecture Hall II
    - Optimierung (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by A. Louis
      Tu 8-10, Th 14-16, Building E2.4, Lecture Hall IV
    - Dynamische Systeme (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by M. Herrmann
      Mo 8-10, Tu 12-14, Building E2.4, Seminar Room 5
    - Lokale und globale Kurventheorie (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by M. Fuchs
      Fr 10-12, Building E2.4, Lecture Hall IV
    - Analysis auf Mannigfaltigkeiten (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by R. Grzibovskis
      Mo, We 10-12, Fr 14-16, Building E2.4, Seminar Room 6 (216)
    - Wahrscheinlichkeitstheorie und Statistik (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by C. Bender
      We 8-10, Fr 8-10, Building E2.5, Lecture Hall III
    - Einführung in Stochastische Prozesse (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by C. Bender
      Tu 10-12, Building E2.4, Seminar Room 5 (215)
  - Classes in Computer Science:
    - Algorithm Engineering (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by K. Mehlhorn and P.

Gawrychowski
Mo 16-18, Th 10-12, Building E1.3, Lecture Hall 003
- Software Engineering (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by A. Zeller
  Tue, Thu 8:30-10, Building E1.3, Lecture Hall 002
- Optimization (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by R. Spöhel and R. van Stee
  Tu 10-12, Th 12-14, Building E1.4, Seminar Room 0.24
- Embedded Systems (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by B. Finkbeiner
  Tu 14-16, Th 16-18, Building E1.3, Lecture Hall 003
- Programmierung II (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by S. Hack
  Tu 14-16, Fr 8-10, Building E2.2, Lecture Hall 0.01 (Günter-Hotz-Hörsaal)
- Limits of Computational Learning (6 CP)
  Classroom lectures (2h) with tutorials (2h) given by T. Kötzing
  We 10-12, Building E1.4, Seminar Room 0.24
- Advanced Graph Algorithms (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by R. Duan, J. Schmidt and M. Wahlström
  Mo, Th 10-12, Building E1.4, Room 0.23
- Systemarchitektur (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by W. Paul
  Mo, We 8-10, Building E2.2, Lecture Hall 0.01 (Günter-Hotz-Hörsaal)
- Programmieren für Ingenieure
  (5 CP when following up to the mid term exam, 8 CP if attending successfully the final exam)
  Classroom lectures (2h) with tutorials (2-3h) given by J. Dittrich and J. Reineke
  Tu 14-16, Building E1.3, Lecture Hall 002
  Students should only attend this course if they do **not** have a Bachelor degree in Computer Science.

- Classes in Mechatronics:
  - Digital Signal Processing (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by D. Klakow
    Mo 10-12, Building A5.1, Lecture Hall -1.03
- Classes in Physics:
  - Elementare Einführung in die Physik II (4 CP)
    Classroom lectures (2h) given by R. Birringer
    Mo 10-12, Building C6.3, Großer Hörsaal
  - Physik für Ingenieure II (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by R. Seemann
    Fr 12-14, Building C6.4, Großer Hörsaal

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)
  - Work as a tutor (4 CP)
  - German as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science
  - English as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science
  - The International Office of Saarland University offers a number of foreign and German language courses .
  - Classes on other foreign languages are offered by the Language Center .

- Any of the classes of the first three categories.
- Classes in humanities (cognitive science, etc.) after approval in advance .

A detailed description of the contents of these classes can be found in our Handbook of Module Descriptions .

The campus map may help you to localise the individual buildings. If you spot some errors or have proposals for adding additional classes to this list, please contact Joachim Weickert .

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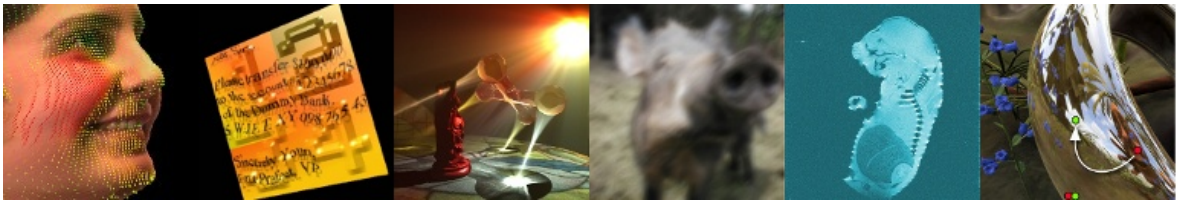

Breaking News

- **Information Meeting on Visual Computing**
  Our Visual Computing Meeting will take place on Monday, October 15, at 2:15 pm in E1.7, Room 0.01.
  All Visual Computing students and other interested people are welcome.

Preliminary List of Classes Offered in the Winter Semester 2012 / 2013

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Dynamic Geometry Processing (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by M. Wand and S. Wuhrer
      Block course in February/March 2013
    - Bildgebende Verfahren - Ultraschall (3 CP)
      Classroom lectures (2h) given by B. Kleffner
      Mon 16:30-18, Building A5.1, Room 1.22
      First lecture is on October 22.
  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Weickert
      Tue, Thu 10-12, Building E1.3, Lecture Hall 002
    - Correspondence Problems in Computer Vision (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by M. Mainberger and J. Weickert
      Thu 14-16, Building E1.3, Seminar room 0.16
    - Image Compression (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by C. Schmaltz
      Fri 10-12, Building E1.3, Lecture Hall 001
    - Probabilistic Graphical Models and their Applications (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by B. Schiele and M. Fritz
      Tue 14-16, Building E1.4, Seminar room 0.24
    - Speech Technology - Pattern and Speech Recognition (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by D. Klakow
      Tue 14-16, Fri 14-16, Building C7.2, Seminar room 1.12
  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Computer Graphics (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Slusallek
      Mon, Wed 14-16, Building E1.3, Lecture Hall 001
    - Visualization and Data Analysis (6 CP)
      Classroom lectures (4h) given by J. Krüger and T. Weinkauf
      Mon 10-12, Wed 12-14, Building E 1.7, Lecture room 001

- **Seminars:**
  (You need at least 8 graded CP from this category.)
  - Milestones and Advances in Image Analysis (8 CP)
    Seminar given by J Weickert and O. Demetz
    Tue, 16-18, Building E1.7, Seminar room 001
  - Dynamic Streaming (8 CP)
    Seminar given by T. Herfet
    for more information see the course webpage
  - Parallel Visual Computing (8 CP)
    Seminar given by I. Ihrke, T. Ritschel and M. Fritz
    for more information, see the webpage; first meeting is Thu, October 18, from 14.00-16.00 in E1.7, Room 0.01
  - Applied Perception (8 CP)
    Seminar given by T. Ritschel, E. Reinhard and K. Myszkowski
    for more information, see the webpage; first meeting is Mon, October 22, from 16.00-18.00 in E1.4, Room 0.19
  - Multimodal Dialog Systems (8 CP)
    Seminar given by D. Klakow
    for more information, see the webpage
    Mon, 16-18, Building C7.2, Conference room 2.11
  - Recent Topics in Computergraphics and Visualization (8 CP)
    Seminar given by J. Krüger
    for more information, see the webpage; first meeting is Thu, October 25, from 10.00-12.00 in DFKI Building D3.4, Room 2.30 (Turing 1)
  - Seminar Tomographie (6 CP)
    Seminar given by A. Louis
    for more information, see the webpage
    Tue 16-18, Building E2.4, Seminar room 6

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
  - Telecommunications I (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 12-14, Wed 8-10, Building E1.3, Lecture Hall 001
  - Machine Learning (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by M. Hein
    Mon 10-12, Wed 10-12, Building E1.3, Lecture Hall 001
  - The Elements of Statistical Learning II (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by T. Lengauer
    Wed 10-12, Building E2.1 (CBI building), Room 007
  - Text to Speech Synthesis (3 CP)
    Classroom lectures (2h) given by B. Möbius
    Tue 16-18, Building C7.2, Seminar room
  - Future Media Internet (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 14-16, Wed 12-14, Building C6.3, Seminar Room 9.05
  - Parallel Programming with CUDA (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by P. Slusallek, J. Kalojanov and P. Danilewski
    Mon 12-14, Building E1.3, Lecture room 003
  - Discrete Topics in Data Mining (3 CP)
    Classroom lectures (2h)) given by P. Miettinen
    Tue 12-14, Building E2.1 (bioinformatics), Lecture room 007

- Grundlagen und Anwendungen der zerstörungsfreien Prüfverfahren (3 CP)
  Classroom lectures (2h) given by C. Boller
  Mon 13-15, Building E3.1 (IZFP), Seminar room
- Zerstörungsfreie Prüfverfahren II (3 CP)
  Classroom lectures (2h) given by C. Boller
  Thu 8:30-10, Building E3.1 (IZFP), Seminar Room

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:
    - Theorie und Numerik von gewöhnlichen Differentialgleichungen (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by T. Schuster
      Tue 8-10, Thu 14-16, Building E2.5, Lecture hall I
    - Partielle Differentialgleichungen I (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by M. Hermann
      Mon, Thu 12-14, Building E2.4, Lecture hall IV
    - PDE and Boundary-Value Problems (6 CP)
      Classroom lectures (3h) with tutorials (1h) given by D. Apushkinskaya
      Wed 10-12, Fri 8-10, Building E2.4, Lecture hall IV
    - Minimal Surfaces and the Calculus of Variations (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by M. Bildhauer
      Tue 12-14, Building E2.4, Seminar room 5
    - Lokale und globale Flächentheorie (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by M. Fuchs
      Fri 10-12, Building E2.4, Lecture hall IV
    - Stochastische Numerik (6 CP)
      Classroom lectures (4h) given by S. Rjasanow
      Tue, Thu 14-16, Building E2.4, Seminar room 5
    - Stochastische Prozesse (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by H. Zaehle
      Mon, 10-12, Building E2.4, Seminar room 5
  - Classes in Computer Science:
    - Algorithms and Data Structures (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by R. Seidel
      Wed 16-18, Building E1.3, Lecture Hall 002, Fri 8-10, Buidling E1.3, Lecture Hall 002
    - Computer Architecture I (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by W. Paul
      Tue 16-18, Thu 14-16, Building E1.3, Lecture Hall 003
    - Programmierung I (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by G. Smolka
      Tue 14-16, Thu 10-12, Building E2.2, Lecture Hall 0.01
  - Classes in Mechatronics:
    - Grundlagen der Signalverarbeitung (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by D. Klakow
      Mo 10-12, Building A5.1, Lecture hall I (1.03)
  - Classes in Physics:
    - Elementare Einführung in die Physik I (4 CP)
      Classroom lectures (2h) with tutorials (2h) given by R. Birringer
      We 10-12, Building C6.4, Großer Hörsaal (0.12)

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language

classes for at most 6 CP.)

- Work as a tutor (4 CP)
- German as a Foreign Language for CS Students (6 CP)
  Lectures (4h) offered by the Max Planck Institute for Computer Science
- English as a Foreign Language for CS Students (6 CP)
  Lectures (4h) offered by the Max Planck Institute for Computer Science
- The International Office of Saarland University offers a number of German language courses .
- Classes on other foreign languages are offered by the Language Center .
- Any of the classes of the first three categories.
- Classes in humanities (cognitive science, etc.) after approval in advance .

A detailed description of the contents of these classes can be found in our Handbook of Module Descriptions .

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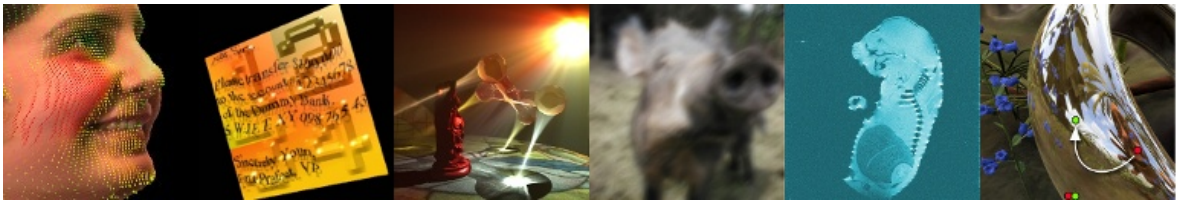

- **Information Meeting on Visual Computing**
  Monday, April 15, 2013 at 2:15 pm in E1.7, Room 0.01
  All Visual Computing students and other interested people are welcome.

Preliminary List of Classes Offered in the Summer Semester 2013

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Image Acquisition Methods (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by P. Peter and J. Weickert
      Lectures Fri 14-16, Building E1.3, Room 001
      Tutorials Tue 16-18, Building E1.3, Seminar Room 016
    - Geometric Modeling (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by K. Hildebrandt, M. Wand and T. Weinkauf
      Tue 14-16, Thu 16-18, Building E1.3, Lecture Hall 1
    - Akustische Abbildungsverfahren (4 CP)
      Classroom lectures (2h) given by S. Hirsekorn
      Thu 14-16, Building E3.1, Seminar room of the IZFP
      First lecture takes place on April 25, 2013.
    - Röntgenprüfverfahren (4 CP)
      Classroom lectures (2h) given by U. Rabe
      Thu 10-12, Building E3.1, Seminar room of the IZFP
      Note: On demand, the lecture can be given in English
  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Differential Equations in Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Weickert
      Tue, Fri 10-12, Building E1.3, Lecture Hall 003
    - Advanced Image Analysis (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by C. Schmaltz
      Mon 14-16, Thu 10-12, Building E1.3, Lecture Hall 0.03
    - High-Level Computer Vision (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by B. Schiele and M. Fritz
      Wed 14-16, Building E1.4, Seminar Room 0.24
  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Realistic Image Synthesis (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Slusallek
      Mon, Wed 10-12, Building E1.3, Lecture Hall 001
  - **Seminars:**
    (You need at least 8 graded CP from this category.)

- Optimisation for Visual Computing (8 CP)
  Seminar given by O. Demetz and S. Setzer
  We 16-18, Building E1.7, Room 008
- Seminar on Digital Data Communications (8 CP)
  Seminar given by T. Herfet
  For more information and to register visit the seminar webpage.
- Geometry of Non-rigid Shapes (8 CP)
  Seminar given by S. Wuhrer
  Preparatory meetings: April 22 and April 29, 10-12, Building E1.7, Room 0.08.
  For more information and to register visit the seminar webpage.
- Computer Vision for Computer Graphics (8 CP)
  Seminar given by C. Theobalt
  Tue 16-18, Building E1.4, Room 019
- 3D Interfaces and 2D Interfaces for 3D Modeling and Navigation (8 CP)
  Seminar given by A. Heloir
  Wed 14-16, Building E1.1, Seminar Room 121
  Kick-off meeting and talk assignment: Wed, April 10
- Grundlagen und Anwendungen der zerstörungsfreien Prüfverfahren (8 CP)
  Seminar given by C. Boller and U. Rabe
  Mon 13:30-15:00, Building E3.1, Seminar Room

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
  - Telecommunications II (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 12-14, Wed 8-10, Building C6.3, Seminar Room 9.05
  - Artificial Intelligence (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by J. Hoffmann
    Mon 10-12, Tue 8-10, Building E1.3, Lecture Hall 002
  - Elements of Statistical Learning 1 (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by T. Lengauer
    Wed 10-12, Building E2.1 (MPI), Seminar Room 0.07
  - Data Mining and Matrices (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by R. Gemulla and P. Miettinen
    Thu 10-12, Building E1.4, Room 021
  - Learning, Game Theory and Optimization (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by M. Hoefer
    Wed 10-12, Building E1.4, Seminar Room 0.24
  - User Interface Optimization and Adaptation (5 CP)
    Classroom lectures (3h) given by A. Oulasvirta
    Tue 9-12, Building E1.7, Room 008
  - Information Extraction and the Semantic Web (3 CP)
    Classroom lectures (2h) given by F. Suchanek
    Tue 14-16, Building E1.3, Seminar Room 0.15
  - Natural Language Generation (3 CP)
    Classroom lectures (2h) given by H. Horacek
    Wed 16-18, Building E1.7, Room 0.01
  - Neural and Cognitive Systems (6 CP)
    Block course given by D. Strauss
    From June 3 to June 21 at Campus Homburg, Neurozentrum, Building 90
  - Auditory Processing and Perception (4 CP)
    Block course given by D. Strauss
    From June 24 to July 19 at Campus Homburg, Neurozentrum, Building 90

- Zerstörungsfreie Prüfverfahren I (4 CP)
  Classroom lectures (2h) given by C. Boller
  Thu 8:30-10, Building E3.1, IZFP, Seminar room
  First lecture on April 25, 2013
- Consider also specialised classes in computational linguistics.

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:
    - Calculus of Variations (6 CP)
      Classroom lectures (3h) with tutorials (1h) given by D. Apushkinskaya
      Mon, Wed 10-12, Building E2.4, Seminar Room 6
    - Fast Matrix Multiplication (3 CP)
      Classroom lectures (2h) given by M. Bläser
      Thu 10-12, Building E1.3, Seminar Room 0.16
    - Optimization (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by A. Karrenbauer and M. Mnich
      Mon 14-16, Wed 10-12, Building E1.3, Lecture Hall 003
    - Graph Theory (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by A. Jez and J. Schmidt
      Tue, Thu 14-16, Building E1.4, Room 0.24
    - Differentialgeometrie I (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by D. Apushkinskaya
      Wed 8-10, Building E2.4, Seminar Room 5
    - Optimierung (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by T. Schuster
      Tue, 14-16, Thu 8-10, Building E2.5, Lecture Hall 002
    - Numerik partieller Differentialgleichungen (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by S. Rjasanow
      Tue 8-10, Thu 14-16, Building E2.4, Seminar Room 10
    - Partielle Differentialgleichungen II (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by M. Herrmann
      Mo, We 12-14, Building E2.4, Lecture Hall IV
    - Theorie und Numerik von Integralgleichungen (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by A. Louis
      Tue 14-16, Thu 8-10, Building E2.4, Lecture Hall IV
    - Stochastik (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by H. Zähle
      Tue 14-16, Thu 12-14, Building E2.4, Seminar Room 5
    - Computeralgebra (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by F.-O. Schreyer
      Wed 14-16, Fri 10-12, Building E1.3, Lecture Hall 001
  - Classes in Computer Science:
    - Design and Analysis of Real-Time Systems (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by J. Reineke
      Thu 14-16, Building E1.3, Lecture Hall 003
    - Optimization (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by A. Karrenbauer and M. Mnich
      Mon 14-16, Wed 10-12, Building E1.3, Lecture Hall 003
    - Graph Theory (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by A. Jez and J. Schmidt
      Tue, Thu 14-16, Building E1.4, Room 0.24

        - Softwarepraktikum (9 CP)
          Classroom lectures (4h) with tutorials (2h) given by A. Zeller
          Tue, Thu 8:30-10, Building E1.3, Lecture Hall 002
        - Programmierung II (9 CP)
          Classroom lectures (4h) with tutorials (2h) given by S. Hack
          Tu 14-16, Fr 8-10, Building E2.2, Lecture Hall 0.01 (Günter-Hotz-Hörsaal)
        - Systemarchitektur (9 CP)
          Classroom lectures (4h) with tutorials (2h) given by W. Paul
          Mo, We 8-10, Building E2.2, Lecture Hall 0.01 (Günter-Hotz-Hörsaal)
        - Computeralgebra (9 CP)
          Classroom lectures (4h) with tutorials (2h) given by F.-O. Schreyer
          Wed 14-16, Fri 10-12, Building E1.3, Lecture Hall 001
        - System Architecture (9 CP)
          Block course given by W. Paul
          Mon-Thu 10-12, 05.08. - 02.09. in Building E1.3 Lecture Hall 003,
          03.09. in Building E2.4 Lecture Hall IV, 04.09. - 12.09. in Building E1.3 Lecture Hall 003
          The lecture will be given in English.
    - Classes in Mechatronics:
        - Digital Signal Processing (6 CP)
          Classroom lectures (2h) with tutorials (2h) given by D. Klakow
          Mo 10-12, Building A5.1, Lecture Hall 1.03
    - Classes in Physics:
        - Elementare Einfürung in die Physik II (5 CP)
          Classroom lectures (2h) with tutorials (1h) given by J. Eschner
          Wed 10-12, Building C6.4, Main Lecture Hall 0.12
        - Physik für Ingenieure II (5 CP)
          Classroom lectures (2h) with tutorials (1h) given by R. Seemann
          Fr 12-14, Building C6.4, Main Lecture Hall 0.12

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)
    - Work as a tutor (4 CP)
    - Scientific Writing (7 CP)
      Block seminar given by S. Wuhrer and T. Weinkauf
      For more information check the seminar webpage.
    - German as a Foreign Language for CS Students (6 CP)
      Lectures (4h) offered by the Max Planck Institute for Computer Science
    - English as a Foreign Language for CS Students (6 CP)
      Lectures (4h) offered by the Max Planck Institute for Computer Science
    - The International Office of Saarland University offers a number of foreign and German language courses .
    - Classes on other foreign languages are offered by the Language Center .
    - Any of the classes of the first three categories.
    - Classes in humanities (cognitive science, etc.) after approval in advance .

  A detailed description of the contents of these classes can be found in our Handbook of Module Descriptions .

  The campus map may help you to localise the individual buildings. If you spot some errors or have proposals for adding additional classes to this list, please contact Joachim Weickert .

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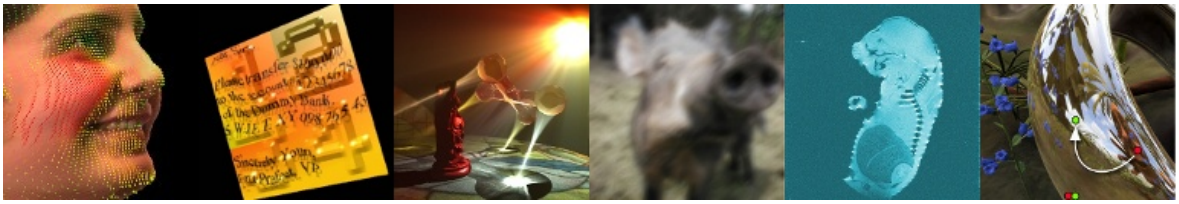

- **Information Meeting on Visual Computing**
  Monday, October 14, 2013 at 2:15 pm in E1.7, Room 0.01
  All Visual Computing students and other interested people are welcome.

Preliminary List of Classes Offered in the Winter Semester 2013/2014

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Computational Geometry (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by E. Berberich and M. Kerber
      Tue 8-10, Thu 8-10, Building E1.3, Seminar Room 1

    - Bildgebende Verfahren - Ultraschall (Ultrasound Imaging) (4 CP)
      Classroom lectures (2h) given by B. Kleffner
      Mon 18-20, Building A5.1, Room 1.22

  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Weickert
      Tue 10-12, Thu 10-12, Building E1.3, Lecture Hall 2

    - Speech Technology - Pattern and Speech Recognition (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by D. Klakow
      Tue 14-16, Building C7.2, Seminar Room 1.12

    - Probabilistic Graphical Models and their Applications (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by B. Schiele and B. Andres
      Tue 12-14, Building E1.3, Room 023

    - Image Compression (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by C. Schmaltz
      Mon 10-12, Building E1.7, Room 001

  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Computer Graphics (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Slusallek
      Tue 14-16, Fri 8-10, Building E1.3, Lecture Hall 1

    - Perception for Computer Graphics (3 CP)
      Classroom lectures (2h) given by P. Vangorp, T. Ritschel and K. Myszkowski

Mon 10-12, Building E1.4, Seminar Room 0.24

- Visualization and Data Analysis (6 CP)
  Classroom lectures (2h) with tutorials (2h) given by T. Weinkauf and J. Martinez Esturo
  Mon 14-16, Building E1.4, Room 0.22

- **Seminars:**
  (You need at least 8 graded CP from this category.)
  - Advances in Image Processing and Computer Vision (8 CP)
    Seminar given by O. Demetz and J. Weickert
    Tue 16-18

  - OFDM for Wireless Communications (8 CP)
    Blockseminar given by T. Herfet
    Thu 8-10, Building C6.3, Seminar Room 9.05

  - Grundlagen und Anwendung der zerstörungsfreien Prüfverfahren (CP unclear)
    Seminar given by C. Boller, U. Rabe and others
    Mon 13-15, Building E3.1, Seminar Room

  - Mobile Eye Tracking meets Egocentric Computer Vision (8 CP)
    Seminar given by A. Bulling and M. Fritz
    Tue 14-16, Building E1.4, Seminar Room 0.24

  - Applied Creative Computing (8 CP)
    Seminar given by T. Ritschel, B. Reinert, C. Nguyen
    Mon 12-14, Building E1.4, Seminar Room 0.24

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
  - Telecommunications I (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 12-14, Wed 8-10, Building E1.3, Lecture Hall 1

  - Future Media Internet (8 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 14-16, Wed 12-14, Building C6.3, Seminar Room 9.05

  - Machine Learning (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by M. Hein
    Wed 14-16, Fri 10-12, Building E1.3, Lecture Hall 1

  - Information Retrieval and Data Mining
    Classroom lectures (4h) with tutorials (2h) given by K. Berberich and P. Miettinen
    Tue 16-18, Thu 14-16, Building E1.3, Lecture Hall 2

  - Automatic Planning (9 CP)
    Classroom lectures (4h) given by J. Hoffmann
    Mon 10-12, Tue 10-12, Building E1.3, Lecture Hall 3

  - Non-Destructive Testing of Materials II (3 CP)
    Classroom lectures (2h) given by C. Boller

Thu 8-10, Building E3.1, Seminar Room

- Informationsverarbeitung in der Produktion I (3 CP)
  Classroom lectures (2h) given by N. Avgoustinov
  Mon 8-10, Building A4.2, Seminarroom 1.12.1

- Consider also specialised classes in computational linguistics .

- **Supplementary Classes (to fill your personal gaps of knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:
    - Convex Analysis for Image Processing (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by L. Hoeltgen and J. Weickert
      Mon 14-16, Thu 12-14, Building E1.3, Lecture Hall 3

    - PDE and Boundary-Value Problems (6 CP)
      Classroom lectures (3h) with tutorials (1h) given by D. Apushkinskaya
      Wed 10-12, Fri 12-14, Building E1.3, Lecture Hall 001

    - Topics in Approximation Algorithms (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by P. Chalermsook and S. Bhattacharya
      Mon 16-18, Building E1.4, Seminar Room 0.24

    - Numerical Algebraic Computation (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by M. Sagraloff
      Wed 14-16, Buiding E1.4 Seminar Room 0.24

    - Mathematische Methoden der Bildrekonstruktion (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by A. Louis
      Tue 14-16, Thu 14-16, Building E2.5, Lecture Hall 2

    - Theorie und Numerik von gewöhnlichen Differentialgleichungen (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by S. Rjasanow
      Tue 8-10, Thu 14-16, Building E2.5, Lecture Hall 1

    - Partielle Differentialgleichungen I (9 CP)
      Classroom lectures (4h) given by M. Fuchs
      Mon 12-14, Thu 12-14, Building E2.4, Lecture Hall 4

    - Differentialgeometrie II (Flächentheorie) (5 CP)
      Classroom lectures (2h) and tutorials (1h) given by D. Apushkinskaya
      Wed 8-10, Building E2.5, Seminar Room 10

    - Konvexe Geometrie (5CP)
      Classroom lectures (2h) with tutorials (1h) given by H. Markwig
      Fri 8-10, Building E2.4, Lecture Hall 4

    - Sobolevräume (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by M. Fuchs
      Fri 10-12, Building E2.4, Lecture Hall 4

- Classes in Computer Science:
  - Software Engineering (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by A. Zeller
    Tue 8-10, Thu 8-10, Building E1.3, Lecture Hall 2
  - Algorithms and Datastructures (9 CP)
    Block course given by R. Seidel
  - Topics in Approximation Algorithms (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by P. Chalermsook and S. Bhattacharya
    Mon 16-18, Building E1.4, Seminar Room 0.24
  - Numerical Algebraic Computation (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by M. Sagraloff
    Wed 14-16, Buiding E1.4 Seminar Room 0.24
  - Programmierung 1 (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by H. Hermanns
    (not for students with a B.Sc. in Computer Science)
    Tue 14-16, Thu 10-12, Fri 16-18, Building E2.2, Lecture Hall 0.01
  - Grundzüge von Algorithmen und Datenstrukturen (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by S. Wuhrer and R. Seidel
    (not for students with a B.Sc. in Computer Science)
    Thu 12-14, Building E2.2, Lecture Hall 0.01
- Classes in Mechatronics:
  - Grundlagen der Signalverarbeitung (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by D. Klakow
    Mon 10-13, Building A5.1, Lecture Hall 1
- Classes in Physics:
  - Elementare Einführung in die Physik I (4 CP)
    Classroom lectures (2h) with tutorials (2h) given by K. Jacobs
    Wed 10-12, Building C6.4, Lecture Hall (0.12)

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)
  - Work as a tutor (4 CP)
  - The International Office of Saarland University offers a number of foreign and German language courses .
  - Classes on other foreign languages are offered by the Language Center .
  - Any of the classes of the first three categories.
  - Classes in humanities (cognitive science, etc.) after approval in advance .

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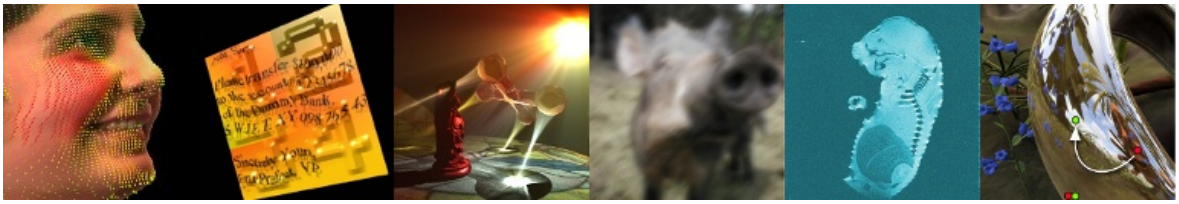

The information on this page is preliminary and might still change slightly.

- **Information Meeting on Visual Computing**
  Monday, April 14, 2014 at 2:15 pm in E1.7, Room 0.01
  All Visual Computing students and other interested people are welcome.

Preliminary List of Classes Offered in the Summer Semester 2014

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Image Acquisition Methods (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by P. Peter and J. Weickert
      Fri 14-16, Building E1.3, Lecture Hall 3

    - Geometric Modeling (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by K. Hildebrandt and T. Weinkauf
      Mon 12-14, Building E1.4 Room 0.24,
      Wed 10-12, Building E1.4 Room 0.21

    - RÃ¶ntgenprÃ¼fverfahren (4 CP)
      Classroom lectures (2h) given by U. Rabe
      Thu 10-12, Building E3.1, Seminar room of the IZFP
      Note: On demand, the lecture can be given in English

  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Correspondence Problems in Computer Vision (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by O. Demetz and J. Weickert
      Mon 14-16, Building E1.3, Lecture Hall 1

    - High Level Computer Vision (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by B. Schiele and M. Fritz
      Wed 14-16 Building E1.4, Seminar Room 0.24

  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Realistic Image Synthesis (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Slusallek, K. Myszkowski and V. Pegoraro
      Tue 10-12, Thu 8-10, Building E1.3, Lecture Hall 1

- **Seminars:**
  (You need at least 8 graded CP from this category.)
  - Gradient Domain Methods in Visual Computing (8 CP)
    Seminar given by M. Schmidt and J. Weickert
    Tue 16-18, Building E1.7, Room 410

  - Tomography as an inverse Rendering Problem (8 CP)
    Seminar given by P. Slusallek, T. Dahmen, B. Turonova

  - Computer Vision for Computer Graphics (8 CP)
    Seminar given by C. Theobalt and C. Richardt
    Thu 14-16, Building E1.4, Room 0.19

  - Digital Data Communication (Multi-View Video Streaming) (8 CP)
    Seminar given by T. Herfet
    Tue 15-17, Building C6.3, Seminarroom 9.05

  - Combinatorial Optimization in Machine Learning and Image Analysis (8 CP)
    Seminar given by B. Andreas and A. Karrenbauer
    Wed 14:30-16:00, Building E1.1 R633

  - Interactive Global Illumination (8 CP)
    Seminar given by T. Ritschel, O. Elek and O. Nalbach
    Building E1.4

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
  - Artificial Intelligence (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by J. Hoffmann
    Mon 10-12, Wed 14-16, Building E2.2 Lecture Hall 0.02

  - Telecommunications II (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 12-14, Wed 8-10, Building C6.3, Seminar Room 9.05

  - Praktikum zu Informationsverarbeitung in der Produktion II (4 CP)
    Praktikum offered by N. Avgustinov
    Termin Montags in der Zeit zwischen 8 und 14 Uhr mÃ¶glich, genauer Termin und Ort nach Vereinbarung. Interessenten melden sich bitte per Mail unter avgoust@cam.uni-saarland.de bis zum 25.04.14.

  - Neural and Cognitive Systems (6 CP)
    Block course given by D. Strauss
    From KW28-30, 10-17 at Campus Homburg, Neurozentrum

  - Statistical Natural Language Processing (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by D. Klakow
    Fri 8-10, Building E1.3, Lecture Hall 1

  - Topics in Algorithmic Data Analysis (5 CP)
    Classroom lectures (2h) given by P. Miettinen and J. Vreeken
    Thu 14-16, Building E1.3, Room 014

- Consider also specialised classes in computational linguistics.

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:
    - Wavelets and Sparsity (6 CP)
      Classroom lectures (3h) with tutorials (1h) given by L. Hoeltgen and J. Weickert
      Mon 16-18, Building E1.3, Lecture Hall 1, Thu 14-16, Building E1.3, Seminar Room 0.16

    - Calculus of Variations (6 CP)
      Classroom lectures (3h) with tutorials (1h) given by D. Apushkinskaya
      Wed 12-14, Fri 10-12, Building E1.3, Lecture Hall 1

    - Convex Optimization (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by M. Hein
      Tue 10-12, Thu 10-12, Building E2.4, Seminar Room 6

    - Optimization (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Chalermsook and A. Karrenbauer
      Tue 14-16, Thu 14-16, Building E1.3 Lecture Hall 3

    - Operator Semigroups and Evolution Equations (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by J. Kinderknecht
      Thu 14-16, Building E2.4, Seminarroom 8

    - Advanced Computational Algebraic Geometry (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by F. Schreyer
      Mon 14-16, Building E2.4, Lecture Hall 4

    - Praktische Mathematik (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by T. Schuster
      Tue 8-10, Thu 14-16, Building E2.5, Lecture Hall 2

    - Stochastik I (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by C. Bender
      Tue 14-16, Thu 12-14, Building E2.4, Seminarroom 10

    - Partielle Differentialgleichungen II (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by M. Fuchs
      Mon 12-14, Thu 12-14, Building E2.4, Lecture Hall 4

  - Classes in Computer Science:
    - Parallel Programming with CUDA (6 CP)
      Classroom lectures (2h) with programming exercises (2h) given by P. Slusallek, J. Kalojanov and P. Danilewski
      Mon 10-12, Building E1.3, Lecture Hall 1

    - Optimization (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Chalermsook and A.

Karrenbauer
Tue 14-16, Thu 14-16, Building E1.3 Lecture Hall 3

- Embedded Systems (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by B. Finkbeiner and P. Ruzica
  Tue 16-18, Thu 10-12, Building E1.3, Lecture Hall 1

- Efficient Data Structures (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by P. Gawrychowski, M. Goswami and P. Nicholson
  Mon 10-12, Building E1.4, Room 021,
  Thu 10-12, Building E1.4, Room 023

- Programmierung 2 (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by S. Hack
  Tue 14-16, Fri 8-16, Building E2.2, Lecture Hall 0.01

- Systemarchitektur (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by J. Reineke and R. Wilhelm
  Mon 8-10, Wed 8-10, Building E2.2 Lecture Hall 0.01

- Softwarepraktikum (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by A. Zeller

- Classes in Mechatronics:
  - Digitale Signalverarbeitung / Digital Signal Processing (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by D. Klakow
    Mon 10-12 Building A5.1 Lecture Hall 1.03

- Classes in Physics:
  - Elementare EinfÃ¼hrung in die Physik II (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by K. Jacobs
    Wed 10-12, Building C6.4, Lecture Hall 0.10

  - Physik fÃ¼r Ingenieure II (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by J. Eschner
    Fr. 13:00-14:30, Building C6.4, Lecture Hall 0.10

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)

  - Work as a tutor (4 CP)

  - The International Office of Saarland University offers a number of foreign and German language courses .

  - Classes on other foreign languages are offered by the Language Center .

  - Any of the classes of the first three categories.

  - Classes in humanities (cognitive science, etc.) after approval in advance .

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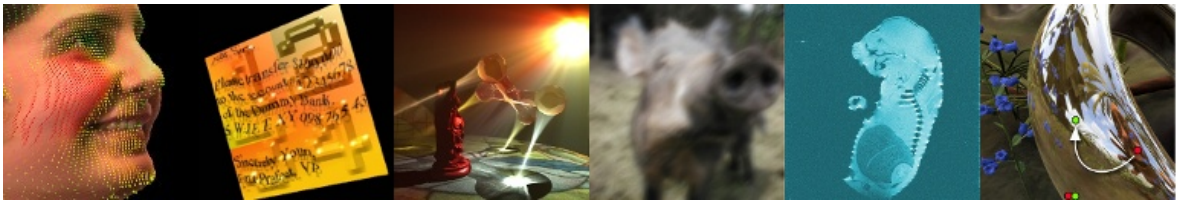

- **Information Meeting on Visual Computing**
  Monday, October 20, 2014 at 2:15 pm in E1.7, Room 0.01
  All Visual Computing students and other interested people are welcome.

Preliminary List of Classes Offered in the Winter Semester 2014/2015

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Bildgebende Verfahren - Ultraschall (Ultrasound Imaging) (4 CP)
      Classroom lectures (2h) given by B. Kleffner
      Mon 18-20, Building A5.1, Room 1.22

  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Differential Equations in Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Weickert
      Tue 10-12, Fri 10-12, Building E1.3, Lecture Hall 3

    - Image Compression (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by P. Peter and J. Weickert
      Thu 10-12, Building E1.3, Lecture Hall 3

    - Advanced Image Analysis (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by S. Hoffmann and J. Weickert
      Tue 8:30-10, Building E1.3, Lecture Hall 3

    - Probabilistic Graphical Models and their Applications (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by B. Schiele
      Wed 14-16, Building E1.4, Seminar Room 0.24

    - Speech Technology - Pattern and Speech Recognition (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by D. Klakow
      Tue 14-16, Building C7.2, Seminar Room 1.12

  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Computer Graphics (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Slusallek
      Wed 16-18, Fri 8-10, Building E1.3, Lecture Hall 2

    - Perception in Computer Graphics (3 CP)
      Classroom lectures (2h) given by T. Ritschel, K. Myszkowski and P. Didyk

Mon 10-12, Building E1.4, Seminar Room 019

- **Seminars:**
  (You need at least 8 graded CP from this category.)
  - Surface Processing: Theory and Applications (8 CP)
    Seminar given by M. Schmidt and J. Weickert
    Tue 16-18, Building E1.7, Room 410

  - Tomography as an Inverse Rendering Problem (8 CP)
    Seminar given by P. Slusallek, T. Dahmen, B. Turonova and N. Marniok

  - Egocentric Computer Vision (8 CP)
    Seminar given by A. Bulling and Y. Sugano
    Mon 10-12, Building E1.4, Room 633

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
  - Machine Learning (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by M. Fritz and B. Andres
    Mon 16-18, Fri 14-16, Building E1.3, Lecture Hall 2

  - Future Media Internet (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 14-16, Wed 12-14, Building C6.3, Room 9.08

  - Automatic Planning (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by J. Hoffmann
    Mon 10-12, Tue 14-16, Building E1.3, Lecture Hall 3

  - Telecommunications I (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 12-14, Wed 8-10, Building E1.3, Lecture Hall 1

  - IT Forensics (3 CP)
    Classroom lectures (2h) given by C. Sorge
    Mon 14-16, Building E1.3, Seminar Room 0.16

  - Advanced Topics in Information Retrieval (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by K. Berberich
    Mon 10-12 Building E1.4, Seminar Room 0.24

  - Statistical Learning (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by T. Lengauer
    Wed 10-12 Building E2.1, Seminar Room 0.07

  - Consider also specialised classes in computational linguistics.

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.

- Classes in Mathematics:
  - Convex Analysis for Image Processing (6 CP)
    Classroom lectures (3h) with tutorials (1h) given by L. Hoeltgen and J. Weickert
    Mon 14-16,Thu 12-14, Building E1.3, Lecture Hall 3
  - PDE and Boundary-Value Problems (6 CP)
    Classroom lectures (3h) with tutorials (1h) given by D. Apushkinskaya
    Mon 12-14, Thu 8-10, Building E1.3, Lecture Hall 3
  - Computer Algebra (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by M. Sagraloff
    Mon 14-16, Wed 10-12, Building E1.3, Lecture Hall 1
  - Integer Programming (5 CP)
    Classroom lectures (2h) with tutorials given by A. Karrenbauer
    Tue 14-16, Building E1.4, Room 024
  - Theorie und Numerik von gewöhnlichen Differentialgleichungen (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by S. Rjasanow
    Tue 8-10, Thu 14-16, Building E2.5, Lecture Hall 1
  - Partielle Differentialgleichungen I (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by M. Groves
    Mon 12-14, Fri 10-12, Building E2.4, Lecture Hall 4
  - Numerik partieller Differentialgleichungen (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by S. Rjasanow
    Tue 14-16, Building E2.4, Lecture Hall 4, Thu 8-10, Building E2.5, Lecture Hall 3
  - Differentialgeometrie (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by M. Fuchs
    Mon 12-14, Building E2.4, Seminar Room 10, Wed 10-12, Building E2.4, Lecture Hall 4
  - Einführung in die Variationsrechnung (3 CP)
    Classroom lectures (2h) given by M. Bildhauer
  - Theorie und Numerik von Integraltransformationen (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by A. Louis
    Tue 12-14, Building E2.5, Lecture Hall 2, Thu 12-14, Building E2.4, Lecture Hall 4
- Classes in Computer Science:
  - Algorithms and Data Structures (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by M. Hoefer
    Mon 10-12, Wed 14-16, Building E1.3, Lecture Hall 1
  - Computer Architecture 1 (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by W. Paul
    Tue 8-10, Thu 12-14 Building E1.3, Lecture Hall 1
  - Integer Programming (5 CP)
    Classroom lectures (2h) with tutorials given by A. Karrenbauer
    Tue 14-16, Building E1.4, Room 024

        - Grundzüge von Algorithmen und Datenstrukturen (6 CP)
          Classroom lectures (2h) with tutorials (2h) given by R. Seidel
          (not for students with a B.Sc. in Computer Science)
          Thu 12-14, Building E2.2, Lecture Hall 0.01

        - Programmierung 1 (9 CP)
          Classroom lectures (4h) with tutorials (2h) given by B. Finkbeiner
          (not for students with a B.Sc. in Computer Science)
          Tue 14-16, Thu 10-12, Building E2.2, Lecture Hall 0.01

    - Classes in Mechatronics:
        - Grundlagen der Signalverarbeitung (5 CP)
          Classroom lectures (2h) with tutorials (1h) given by D. Klakow
          Mon 10-13, Building A5.1, Lecture Hall 1 (1.03)

    - Classes in Physics:
        - Elementare Einführung in die Physik I (4 CP)
          Classroom lectures (2h) with tutorials (2h) given by F. Müller
          Wed 10-12, Building C6.4, Lecture Hall (0.10)

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)

    - Work as a tutor (4 CP)

    - The International Office of Saarland University offers a number of foreign and German language courses .

    - Classes on other foreign languages are offered by the Language Center .

    - Any of the classes of the first three categories.

    - Classes in humanities (cognitive science, etc.) after approval in advance .

  A detailed description of the contents of these classes can be found in our Handbook of Module Descriptions .

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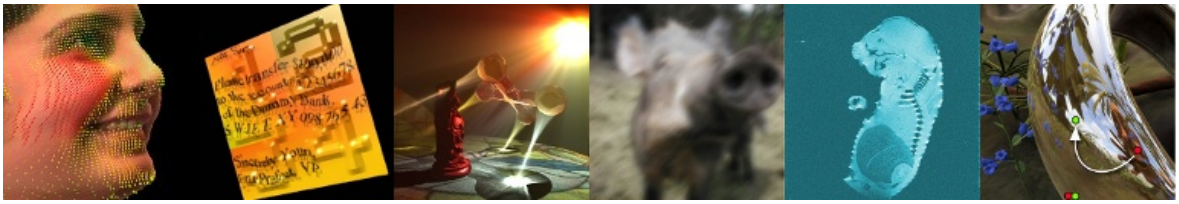

- **Information Meeting on Visual Computing**
  Monday, April 20, 2015 at 2:15 pm in E1.7, Room 0.01
  All Visual Computing students and other interested people are welcome.

Preliminary List of Classes Offered in the Summer Semester 2015

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Image Acquisition Methods (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by P. Peter and J. Weickert
      Mon 14-16, Building E1.3, Lecture Hall 3

    - Geometric Modeling (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by H.-P. Seidel
      Tue 14-16, Thu 14-16, Building E1.4, Room 0.24

    - Akustische Abbildungsverfahren (4 CP)
      Classroom lectures (2h) given by U. Rabe
      Thu 10-12, Building E 3.1, Seminar room of the IZFP
      Note: On demand, the lecture can be given in English

  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Weickert
      Tue 10-12, Building E2.2, GÃ¼nter Hotz Lecture Theatre
      Thu 10-12, Building E1.3, Lecture Hall 2

    - Correspondence Problems in Computer Vision (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by S. Hoffmann and J. Weickert
      Mon 16-18, Building E1.3, Lecture Hall 1

    - Differential Geometric Aspects of Image Processing (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by M. Schmidt and J. Weickert
      Tue 8-10, Building E1.3, Lecture Hall 3

    - High Level Computer Vision (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by B. Schiele
      Mon 14-16, Wed 14-16, Building E1.4, Seminar Room 0.24

  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)

- Interactive Computer Graphics using OpenGL (3 CP)
  Classroom lectures (2h) given by T. Ritschel
  Mon 12-14 Building E1.4, Room 019

- Realistic Image Synthesis (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by P. Slusallek
  Mon 10-12, Thu 8-10, Building E1.3, Lecture Hall 1

- **Seminars:**
  (You need at least 8 graded CP from this category.)
  - Groundbreaking Ideas in Image Analysis (8 CP)
    Seminar given by S. SchÃ¤ffer and J. Weickert
    Tue 16-18, Building E1.7, Room 410

  - Computational Display and Fabrication (8 CP)
    Seminar given by P. Didyk and K. Myszkowski
    Mon 16-18, Building E1.4, Room 0.19

  - Computer Vision for Computer Graphics (8 CP)
    Seminar given by C. Theobalt and C. Richardt
    Thu 14-16, Building E1.4, Room 0.19

  - Integrating Vision and Language (8 CP)
    Block seminar given by D. Klakow
    some time between August and October

  - Tomography as an Inverse Rendering Problem (8 CP)
    Seminar given by P. Slusallek, B. Turonova, T. Dahmen and N. Marniok

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
  - Artificial Intelligence (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by J. Hoffmann
    Mon 10-12, Tue 16-18, Building E2.2, GÃ¼nter Hotz Lecture Theatre

  - Telecommunications II (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 12-14, Wed 8-10, Building C6.3, Seminar Room 9.05

  - Data Mining and Matrices (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by P. Miettinen
    Thu 12-14, Building E1.5, Room 029

  - Neural and Cognitive Systems (6 CP)
    Block course given by D. Strauss
    week no. 29-31, 9-18, Lecture Room SNN-Unit, Building 90.5, Room U 34 at Campus Homburg, Neurozentrum

  - Statistical Natural Language Processing (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by D. Klakow
    Fri 8-10, Building E1.3, Lecture Hall 1

- Bioelektrische Signale (3 CP)
  Block course given by K.-P. Hoffmann
  Mon 16.30-18, Seminar Room in the 4th floor, Fraunhofer IBMT St. Ingbert

- Consider also specialised classes in computational linguistics.

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:
    - Calculus of Variations (6 CP)
      Classroom lectures (3h) with tutorials (1h) given by D. Apushkinskaya
      Mon 12-14, Wed 10-12, Building E2.4, Seminar Room 318

    - Inverse Probleme mit Anwendungen in der Bildrekonstruktion (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by B. Hahn
      Tue 10-12, Building E2.4, Seminar Room 6

    - Praktische Mathematik (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by S. WeiÃŸer
      Tue 8-10, Thu 14-16, Building E2.5, Lecture Hall 2

    - Variationsrechnung (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by M. Fuchs
      Mon 12-14, Wed 10-12, Building E2.4, Seminar Room 10

    - Stochastische Numerik (9 CP)
      Classroom lectures (4h) with tutorials (2) given by S. Rjasanow
      Tue 14-16, Thu 08-10, Building E2.4, Seminar Room 6

    - Stochastik I (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by H. ZÃ¤hle
      Tue 14-16, Thu 12-14, Building E2.4, Seminar Room 10

    - Optimization (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by A. Karrenbauer
      Wed 10-12, Fri 14-16, Building E1.3, Lecture Hall 1

    - Partielle Differentialgleichungen II (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by M. Groves
      Mon 12-14, Thu 12-14, Building E2.4, Lecture Hall 4

  - Classes in Computer Science:
    - Optimization (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by A. Karrenbauer
      Wed 10-12, Fri 14-16, Building E1.3, Lecture Hall 1

    - Programmierung 2 (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by S. Hack
      Tue 14-16, Fri 8-10, Building E2.2, GÃ¼nter Hotz Lecture Theatre

        - Systemarchitektur (9 CP)
          Classroom lectures (4h) with tutorials (2h) given by W. Paul
          Mon 8-10, Wed 8-10, Building E2.2, GÃ¼nter Hotz Lecture Theatre

        - Softwarepraktikum (9 CP)
          Classroom lectures (4h) with tutorials (2h) given by A. Zeller

    - Classes in Mechatronics:
        - Digitale Signalverarbeitung / Digital Signal Processing (6 CP)
          Classroom lectures (2h) with tutorials (2h) given by D. Klakow
          Mon 10-12, Building A5.1, Lecture Hall 1.03

    - Classes in Physics:
        - Elementare EinfÃ¼hrung in die Physik II (5 CP)
          Classroom lectures (2h) with tutorials (1h) given by K. Jacobs
          Wed 10-12, Building C6.4, Lecture Hall 0.10

        - Physik fÃ¼r Ingenieure II (5 CP)
          Classroom lectures (2h) with tutorials (1h) given by R. Birringer
          Fri 12-14, Building C6.4, Lecture Hall 0.10

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)

    - Work as a tutor (4 CP)

    - German as a Foreign Language for CS Students (6 CP)
      Lectures (4h) offered by the Max Planck Institute for Computer Science.

    - English as a Foreign Language for CS Students (6 CP)
      Lectures (4h) offered by the Max Planck Institute for Computer Science.

    - The International Office of Saarland University offers a number of foreign and German language courses .

    - Classes on other foreign languages are offered by the Language Center .

    - Any of the classes of the first three categories.

    - Classes in humanities (cognitive science, etc.) after approval in advance .

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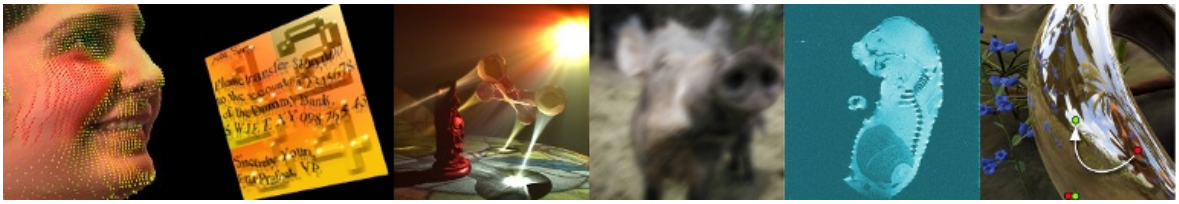

- **Information Meeting on Visual Computing**
  Monday, October 19, 2015 at 2:15 pm in **E2.4, Room 115.**
  All Visual Computing students and other interested people are welcome.

Preliminary List of Classes Offered in the Winter Semester 2015/2016

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Bildgebende Verfahren - Ultraschall (4 CP)
      Classroom lectures (2h) given by M. Fournelle
      Mon 18-20, Building A5.1, Room 1.22

  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Differential Equations in Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Weickert
      Wed 10-12, Fri 12-14, Building E1.3, Lecture Hall 3

    - Image Compression (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by P. Peter and J. Weickert
      Thu 12-14, Building E1.3, Lecture Hall 1

    - Advanced Image Analysis (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by D. Hafner and J. Weickert
      Mon 14-16, Building E1.3, Lecture Hall 1

    - Probabilistic Graphical Models and their Applications (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by B. Schiele
      Thu 10-12, Building E1.4, Seminar Room 0.24

    - Speech Technology - Pattern and Speech Recognition (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by D. Klakow
      Tue 14-16, Building C7.3, Seminar Room 1.12

  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Computer Graphics (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Slusallek
      Tue 08-10, Thu 16-18, Building E1.3, Lecture Hall 1

    - Perception in Computer Graphics (3 CP)
      Classroom lectures (2h) given by K. Myszkowski and P. Didyk

Mon 10-12, Building E1.4, Seminar Room 019

- **Seminars:**
  (You need at least 8 graded CP from this category.)
  - Optimal Transport in Image Processing (8 CP)
    Seminar given by M. Schmidt and J. Weickert
    Mon 16-18, Building E1.7, Room 410

  - Character Animation (8 CP)
    Seminar given by A. Heloir

  - Interactive Digital Fabrication (8 CP)
    Seminar given by J. Steimle, D. GrÃ¶ger, and M. Weigel
    Wed 14-15, Building E1.7, Room 008

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
  - Machine Learning (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by M. Hein
    Wed 14-16, Fr 10-12, Building E1.3, Lecture Hall 1

  - Telecommunications I (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 12-14, Wed 8-10, Building E1.3, Lecture Hall 1

  - Future Media Internet (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 14-16, Wed 12-14, Building C6.3, Room 9.05

  - Automatic Planning (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by J. Hoffmann
    Mon 10-12, Tue 10-12, Building E1.3, Lecture Hall 3

  - Information Retrieval and Data Mining (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by G. Weikum
    Tue 14-16, Thu 14-16, Building E1.4, Room 0.24

  - Consider also specialised classes in computational linguistics.

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:
    - Convex Analysis and Optimisation (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by P. Ochs
      Thu 10-12, Building E1.3, Lecture Hall 3

    - PDE and Boundary-Value Problems (6 CP)
      Classroom lectures (3h) with tutorials (1h) given by D. Apushkinskaya
      Mon 10-12, Fri 08-10, Building E1.3, Lecture Hall 1

- Compressed Sensing in der Bildrekonstruktion (5 CP)
  Classroom lectures (2h) with tutorials (2h) given by B. Hahn
  Fri 10-12, Place: TBA

- Theorie und Numerik von gewÃ¶hnlichen Differentialgleichungen (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by T. Schuster
  Tue 08-10, Thu 14-16, Building E2.5, Lecture Hall 1

- Modellieren mit partiellen Differentialgleichungen (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by S. Rjasanow
  Tue 14-16, Thu 10-12, Building E2.5, Lecture Hall 2

- Halbgruppen und Pseudodifferentialoperatoren fÃ¼r Evolutionsgleichungen und Markovsche Prozesse (5 CP)
  Classroom lectures (2h) with tutorials (1h) given by Y. Kinderknecht
  Wed 10-12, Building A5.1, Lecture Hall 1 (1.03)

- Stochastik II (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by H. ZÃ¤hle
  Wed 14-16, Thu 10-12, Building E2.4, Seminar Room 10

- Classes in Computer Science:
  - Algorithms and Data Structures (9 CP)
    Block lecture course given by M. Hoefer and R. Seidel
    Lectures: 29.02. - 01.04.2016
    First lecture: 29.02.2016

  - Multicore System Architecture (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by W. Paul
    Tue 14-16, Fri 10-12, Building E1.3, Lecture Hall 3

  - Software Engineering (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by A. Zeller
    Tue 10-12, Thu 08-10, Building E2.2, Lecture Hall 1

  - GrundzÃ¼ge von Algorithmen und Datenstrukturen (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by M. BlÃ¤ser
    (not for students with a B.Sc. in Computer Science)
    Thu 12-14, Building E2.2, Lecture Hall 1

  - Programmierung 1 (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by B. Finkbeiner
    (not for students with a B.Sc. in Computer Science)
    Tue 14-16, Thu 10-12, Building E2.2, Lecture Hall 1

- Classes in Mechatronics:
  - Grundlagen der Signalverarbeitung (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by D. Klakow
    Mon 10-13, Building A5.1, Lecture Hall 1 (-1.03)

- Classes in Physics:
  - Elementare EinfÃ¼hrung in die Physik I (4 CP)
    Classroom lectures (2h) with tutorials (2h) given by K. Jacobs

Wed 10-12, Building C6.4, Lecture Hall (0.10)

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)
  - Work as a tutor (4 CP)
  - German as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science.
  - English as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science.
  - The International Office of Saarland University offers a number of foreign and German language courses .
  - Classes on other foreign languages are offered by the Language Center .
  - Any of the classes of the first three categories.
  - Classes in humanities (cognitive science, etc.) after approval in advance .

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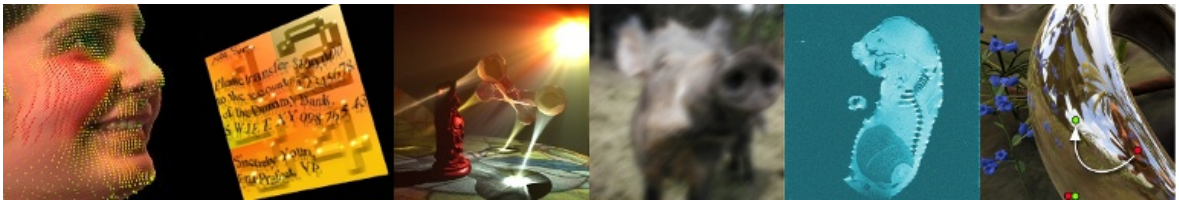


- **Information Meeting on Visual Computing**
  Monday, April 18, 2016 at 2:16 pm in E2.4, Room 1.15
  All Visual Computing students and other interested people are welcome.

Preliminary List of Classes Offered in the Summer Semester 2016

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Image Acquisition Methods (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by P. Peter and J. Weickert
      Thu 16-18, Building E1.3, Lecture Hall 3

    - Geometric Modeling (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by H.P. Seidel and R. Zayer
      Tue 14-16, Thu 10-12, Building E1.3, Lecture Hall 1

    - Akustische Abbildungsverfahren (4 CP)
      Classroom lectures (2h) given by U. Rabe
      Thu 10-12, Building E3.1, Seminar room of the IZFP
      Note: On demand, the lecture can be given in English

  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Image Processing and Computer Vision (9 CP)
      Classroom lectures (2h) with tutorials (2h) given by J. Weickert
      Tue 10-12, Building E2.2, Lecture Hall 0.01
      Fri 10-12, Building E1.3, Lecture Hall 2

    - Advanced Variational Methods in Image Processing and Computer Vision (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by P. Ochs
      Thu 12-14, Building E1.3, Lecture Hall 1

    - Probabilistic Methods in Image Analysis (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by M. Schmidt and J. Weickert
      Wed 14-16, Building E1.3, Lecture Hall 1

    - High Level Computer Vision (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by B. Schiele
      Thu 14-16 Building E1.4, Seminar Room 0.24

  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)

- Realistic Image Synthesis (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by P. Slusallek, K. Myszkowski
  Mon 08-10, Thu 8-10, Building E1.3, Lecture Hall 1

- **Seminars:**
  (You need at least 8 graded CP from this category.)
  - Inpainting in Image Coding (8 CP)
    Seminar given by S. SchÃ¤ffer and J. Weickert
    Tue 16-18, Building E1.7, Room 410

  - Computer Vision for Computer Graphics (8 CP)
    Seminar given by C. Theobalt, C. Richardt, and D. Casas
    Thu 14-16, Building E1.4, Room 0.21

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
  - Artificial Intelligence (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by J. Hoffmann and W. Wahlster
    Mon 10-12, Tue 16-18, Building E2.2, Lecture Hall 0.01

  - Telecommunications II (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 12-14, Wed 8-10, Building C6.3, Seminar Room 9.05

  - Advanced Topics in Information Retrieval (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by J. StrÃ¶tgen and V. Setty
    Thu 14-16, Building E1.4, Room 023

  - Computational Fabrication (3 CP)
    Classroom lectures (2h) given by P. Didyk
    Wed 10-12 Building E1.7, Seminar Room 008

  - Topics in Algorithmic Data Analysis (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by P. Miettinen and J. Vreeken
    Thu 10-12 Building E1.3, Seminar Room 0.14

  - Statistical Natural Language Processing (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by D. Klakow
    Fri 8-10, Building E1.3, Lecture Hall 1

  - Neural and Cognitive Systems (6 CP)
    Block course given by D. Strauss
    week no. 25-27 at Campus Homburg, Neurozentrum

  - Consider also specialised classes in computational linguistics.

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:

- Calculus of Variations (6 CP)
  Classroom lectures (3h) with tutorials (1h) given by D. Apushkinskaya
  Tue 08-10, Fri 08-10, Building E1.3, Lecture Hall 3

- Convex Optimization (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by M. Hein
  Tue 14-16, Fri 10-12, Building E2.4, Seminar Room 6

- Optimization (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by P. Chalermsook and A. Wiese
  Mon 12-14, Wed 12-14, Building E1.3 Lecture Hall 3

- Praktische Mathematik (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by S. Rjasanow
  Tue 8-10, Thu 14-16, Building E2.5, Lecture Hall 2

- Differentialgeometrie (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by M. Fuchs
  Mon 12-14, Wed 10-12, Building E2.4, Seminar Room 10

- Stochastik I (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by H. ZÃ¤hle
  Tue 10-12, Thu 10-12, Building E2.4, Seminarroom 10

- Lineare und nichtlineare Optimierung (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by T. Schuster
  Tue 14-16, Thu 08-10, Building E2.5 Lecture Hall 2

- Classes in Computer Science:
  - Optimization (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by P. Chalermsook and A. Wiese
    Mon 12-14, Wed 12-14, Building E1.3 Lecture Hall 3

  - Embedded Systems (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by B. Finkbeiner and S. Jacobs
    Mon 14-16, Wed 10-12, Fri 12-14, Building E1.3, Lecture Hall 1

  - Randomized Algorithms and Probabilistic Analysis of Algorithms (5 CP)
    Classroom lectures (2h) with tutorials (2h) given by K. Mehlhorn and T. Kesselheim
    Mon 16-18, Building E1.4, Seminarroom 0.24

  - Programmierung 2 (9 CP)
    (only if you do not hold a Bachelor's degree in computer science)
    Classroom lectures (4h) with tutorials (2h) given by S. Hack and S. Moll
    Tue 14-16, Fri 8-10, Building E2.2, Lecture Hall 0.01

  - Systemarchitektur (9 CP)
    (only if you do not hold a Bachelor's degree in computer science)
    Classroom lectures (4h) with tutorials (2h) given by J. Reineke
    Mon 8-10, Wed 8-10, Building E2.2 Lecture Hall 0.01

  - Softwarepraktikum (9 CP)
    (only if you do not hold a Bachelor's degree in computer science)
    Classroom lectures (4h) with tutorials (2h) given by A. Zeller

- Classes in Mechatronics:
  - Digitale Signalverarbeitung / Digital Signal Processing (6 CP)
    Block course given by R. Mahdian and D. Klakow
    Building A5.1, Lecture Hall -1.22
    Starts: March, 22nd

- Classes in Physics:
  - Elementare EinfÃ¼hrung in die Physik II (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by F. MÃ¼ller
    Wed 10-12, Building C6.4, Lecture Hall 0.10

  - Physik fÃ¼r Ingenieure II (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by R. Seemann
    Fr. 12-14, Building C6.4, Lecture Hall 0.10

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)

  - Work as a tutor (4 CP)

  - German as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science.

  - English as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science.

  - The International Office of Saarland University offers a number of German language courses .

  - Classes on other foreign languages are offered by the Language Center .

  - Any of the classes of the first three categories.

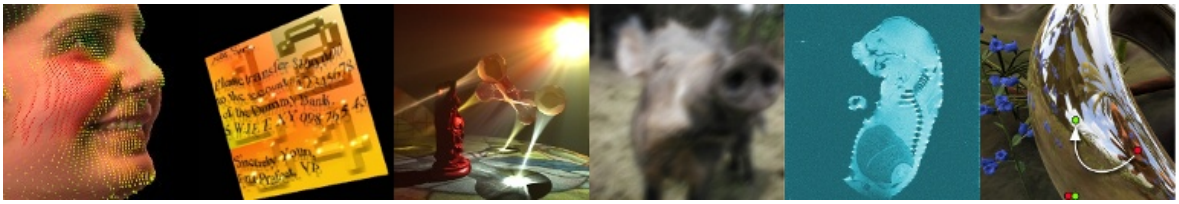
  - Classes in humanities (cognitive science, etc.) after approval in advance .

  A detailed description of the contents of these classes can be found in our Handbook of Module Descriptions .

  The campus map may help you to localise the individual buildings.

  If you spot some errors or have proposals for adding additional classes to this list, please contact Joachim Weickert .

Back to Teaching Main Page



- **Information Meeting on Visual Computing**
  Monday, October 24, 2016 at 2:15 pm in **E2.4, Lecture Hall IV.**
  All Visual Computing students and other interested people are welcome.

Preliminary List of Classes Offered in the Winter Semester 2016/2017

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Bildgebende Verfahren - Ultraschall (Ultrasound Imaging) (4 CP)
      Classroom lectures (2h) given by M. Fournelle
      Mon 16-18, Building E2.6, Seminar Room 11

  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Differential Equations in Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Peter
      Mon 14-16, Building E1.3, Lecture Hall 3
      Fri 14-16, Building E1.3, Lecture Hall 1

    - Probabilistic Graphical Models and their Applications (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by B. Schiele, and B. Andres
      Wed 14-16, Thu 10-12, Building E1.4, Seminar Room 0.24

    - Speech Technology - Pattern and Speech Recognition (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by D. Klakow
      Tue 14-16, Building C7.3, Seminar Room 1.12

  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Computer Graphics (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Slusallek
      Tue 08-10, Thu 12-14, Building E1.3, Lecture Hall 1

    - Perception in Computer Graphics (3 CP)
      Classroom lectures (2h) given by K. Myszkowski, and P. Didyk
      Wed 10-12, Building E1.4, Room 19

  - **Seminars:**
    (You need at least 8 graded CP from this category.)
    - MIT's Golden Age of Vision (8 CP)
      Seminar given by S. Andris, and J. Weickert
      Wed 16-18, Building E1.7, Room 410

- Virtual Reality: Theory and Practice (8 CP)
  Seminar given by M. Speicher, and A. Zenner

- Attentive User Interfaces (8 CP)
  Seminar given by A. Bulling, and J. Steil
  Tue 10-12, Building E1.4, Room 021

- Software design and architectures for interactive avatars: a hands-on approach (8 CP)
  Seminar given by F. Nunnari, and A. Heloir
  Fri, a slot between 10:00 and 16:00

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
  - Machine Learning (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by M. Hein
    Tue 16-18, Fr 10-12, Building E1.3, Lecture Hall 2

  - Telecommunications I (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 12-14, Wed 8-10, Building E1.3, Lecture Hall 1

  - Future Media Internet (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 14-16, Wed 12-14, Building C6.3, Room 9.05

  - Automatic Planning (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by J. Hoffmann, and A. Torralba
    Mon 10-12, Tue 10-12, Building E1.3, Lecture Hall 3

  - Physical Computing (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by J. Steimle
    Wed 10-12, Building E1.7, Room 001

  - Elements of Statistical Learning (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by T. Lengauer
    Tue 10-12, Building E1.4, Seminar Room 0.24
    Wed 10-12, Building E2.1, Seminar Room 0.01

  - Consider also specialised classes in computational linguistics.

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:
    - Convex Analysis in Image Processing (6 CP)
      Classroom lectures (3h) with tutorials (1h) given by M. Augustin
      Mon 12-14, Building E1.3, Lecture Hall 3
      Thu 16-18, Building E1.3, Lecture Hall 1

- PDE and Boundary-Value Problems (6 CP)
  Classroom lectures (3h) with tutorials (1h) given by D. Apushkinskaya
  Wed 10-12, Building E1.3, Lecture Hall 3
  Fri 08-10, Building E1.3, Lecture Hall 1

- Theorie und Numerik von gewÃ¶hnlichen Differentialgleichungen (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by T. Schuster
  Tue 08-10, Thu 14-16, Building E2.5, Lecture Hall 1

- Numerik partieller Differentialgleichungen (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by S. Rjasanow
  Mon 14-16, Thu 8-10, Building E2.5, Lecture Hall 3

- Stochastik II (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by H. ZÃ¤hle
  Tue 10-12, Wed 14-16, Building E2.4, Seminar Room 6

- Inverse Probleme (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by T. Schuster
  Tue 12-14, Fri 10-12, Building E2.4, Lecture Hall 4

- Funktionalanalysis 1 (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by J. Eschmeier
  Tue 8-10, Thu 8-10, Building E2.4, Lecture Hall 4

- Mathematische Statistik (5 CP)
  Classroom lectures (2h) with tutorials (1h) given by P. Kern, and H. ZÃ¤hle
  Thu 10-12, Building E2.4, Seminar Room 6

- Classes in Computer Science:
  - Algorithms and Data Structures (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by K. Bringmann, and E. van Leeuwen
    Mon 16-18, Wed 16-18, Building E1.3, Lecture Hall 2

  - Modelling and Simulation (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by V. Wolf
    Wed 10-12, Fri 10-12, Building E1.3, Lecture Hall 1

  - GrundzÃ¼ge von Algorithmen und Datenstrukturen (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by A. Karrenbauer
    (not for students with a B.Sc. in Computer Science)
    Thu 12-14, Building E2.2, Lecture Hall 1

  - Programmierung 1 (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by H. Hermanns
    (not for students with a B.Sc. in Computer Science)
    Tue 14-16, Thu 10-12, Building E2.2, Lecture Hall 1

- Classes in Mechatronics:
  - Grundlagen der Signalverarbeitung (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by D. Klakow
    Mon 10-13, Building A5.1, Lecture Hall 1 (-1.03)

- Classes in Physics:
  - Elementare EinfÃ¼hrung in die Physik I (4 CP)
    Classroom lectures (2h) with tutorials (2h) given by F. MÃ¼ller
    Wed 10-12, Building C6.4, Lecture Hall (0.10)

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)
  - Work as a tutor (4 CP)
  - German as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science.
  - English as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science.
  - The International Office of Saarland University offers a number of foreign and German language courses .
  - Classes on other foreign languages are offered by the Language Center .
  - Any of the classes of the first three categories.
  - Classes in humanities (cognitive science, etc.) after approval in advance .

  A detailed description of the contents of these classes can be found in our Handbook of Module Descriptions .

  The campus map may help you to localise the individual buildings.

  If you spot some errors or have proposals for adding additional classes to this list, please contact Joachim Weickert .

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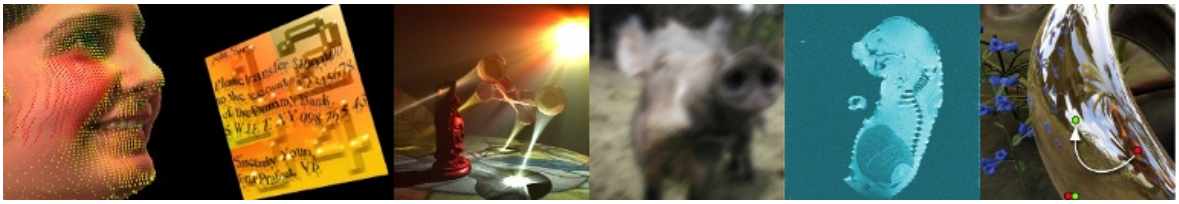

- **Information Meeting on Visual Computing**
  Tuesday, April 18, 2017 at 2:15 pm in E2.4, Room 1.15
  All Visual Computing students and other interested people are welcome.

Preliminary List of Classes Offered in the Summer Semester 2017

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Geometric Modeling (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by H.P. Seidel and R. Zayer
      Wed 10-12, Fri 12-14, Building E1.3, Lecture Hall 1

    - Physikalische Akustik 1 (3 CP)
      Classroom lectures (2h) given by U. Rabe
      Thu 8.30-10, Building E3.1, Seminar room of the IZFP

  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Image Processing and Computer Vision (9 CP)
      Classroom lectures (2h) with tutorials (2h) given by J. Weickert
      Tue 10-12, Fri 10-12, Building E1.3, Lecture Hall 1

    - Correspondence Problems in Computer Vision (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by P. Peter
      Mon 16-18, Building E1.3, Lecture Hall 3

    - Image Compression (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by P. Peter
      Thu 12-14, Building E1.3, Lecture Hall 1

    - High Level Computer Vision (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by B. Schiele and M. Fritz
      Mon 14-16, Wed 14-16, Building E1.4, Seminar Room 0.24

  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Realistic Image Synthesis (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Slusallek and K. Myszkowski
      Mon 14-16, Thu 10-12, Building E1.3, Lecture Hall 1

  - **Seminars:**
    (You need at least 8 graded CP from this category.)

- Statistics of Natural Images (8 CP)
  Seminar given by S. Andris and J. Weickert
  Wed 16-18, Building E1.7, Room 410

- Computer Vision for Computer Graphics (8 CP)
  Seminar given by C. Theobalt, M. ZollhÃ¶fer, and W. Xu
  Thu 14-16, Building E1.4, Room 0.21

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
  - Artificial Intelligence (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by J. Hoffmann and W. Wahlster
    Mon 10-12, Tue 16-18, Building E2.2, Lecture Hall 0.01

  - Telecommunications II (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 12-14, Wed 8-10, Building C6.3, Seminar Room 9.05

  - Topics in Algorithmic Data Analysis (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by J. Vreeken
    Thu 10-12, Building E1.7, Room 0.01

  - Data Mining and Matrices (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by P. Miettinen, S. Karaev, and S. Metzler
    Mon 14-16, Building E1.5, Room 029

  - Computational Fabrication (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by P. Didyk
    Wed 14-16, Building E1.7, Room 0.08

  - Statistical Natural Language Processing (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by D. Klakow
    Fri 8.30-10, Building E1.3, Lecture Hall 1

  - Human-Computer Interaction (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by J. Steimle
    Mon 16-18, Wed 14-16, Building E1.3, Lecture Hall 1

  - Neural and Congnitive Systems (6 CP)
    Block course given by D. Strauss
    tba

  - Consider also specialised classes in computational linguistics.

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:
    - Calculus of Variations (6 CP)
      Classroom lectures (3h) with tutorials (1h) given by D. Apushkinskaya

Tue 08-10, Fri 08-10, Building E2.5, Lecture Hall 1

- Numerical Algorithms for Visual Computing (6 CP)
  Classroom lectures (3h) with tutorials (1h) given by M. Augustin
  Tue 8-10, Thu 16-18, Building E1.3 Lecture Hall 3

- Convex Optimization (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by M. Hein
  Mon 10-12, Thu 10-12, Building E1.3, Lecture Hall 3

- Partial Differential Equations 1 (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by M. Groves
  Wed 10-12, Building E2.4, Seminar Room 10
  Thu 10-12, Building E2.4, Lecture Hall 4

- Inverse Problems in Banach Spaces (6 CP)
  Classroom lectures (2h) with tutorials (2h) given by T. Schuster
  Tue 10-12, Fri 10-12, Building E2.4, Seminar Room 6

- Operatorhalbgruppen, Markovsche Prozesse und Evolutionsgleichungen (5 CP)
  Classroom lectures (2h) with tutorials (1h) given by Y. Kinderknecht
  Mon 12-14, Building E2.4, Seminar Room 9

- Stochastik I (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by H. ZÃ¤hle
  Tue 10-12, Fri 10-12, Building E2.4, Seminar Room 6

- Classes in Computer Science:
  - Optimization (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by A. Karrenbauer
    Tue 14-16, Thu 14-16, Building E1.3, Lecture Hall 3

  - Software Engineering (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by A. Zeller
    Tue 8-10, Thu 8-10, Building E2.2, Lecture Hall 0.01

  - Programmierung 2 (9 CP)
    (only if you do not hold a Bachelor's degree in computer science)
    Classroom lectures (4h) with tutorials (2h) given by S. Hack
    Tue 14-16, Fri 8-10, Building E2.2, Lecture Hall 0.01

  - Systemarchitektur (9 CP)
    (only if you do not hold a Bachelor's degree in computer science)
    Classroom lectures (4h) with tutorials (2h) given by J. Reineke
    Mon 8-10, Wed 8-10, Building E2.2, Lecture Hall 0.01

  - Softwarepraktikum (9 CP)
    (only if you do not hold a Bachelor's degree in computer science)
    Classroom lectures (4h) with tutorials (2h) given by A. Zeller

- Classes in Mechatronics:
  - Digitale Signalverarbeitung / Digital Signal Processing (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by D. Klakow
    Mon 10-12, Building A5.1, Lecture Hall -1.03

- Classes in Physics:
  - Elementare EinfÃ¼hrung in die Physik II (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by F. MÃ¼ller
    Wed 10-12, Building C6.4, Lecture Hall 0.10

  - Physik fÃ¼r Ingenieure II (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by R. Seemann
    Fri 12-14, Building C6.4, Lecture Hall 0.10

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)

  - Work as a tutor (4 CP)

  - German as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science.

  - English as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science.

  - The International Office of Saarland University offers a number of German language courses .

  - Classes on other foreign languages are offered by the Language Center .

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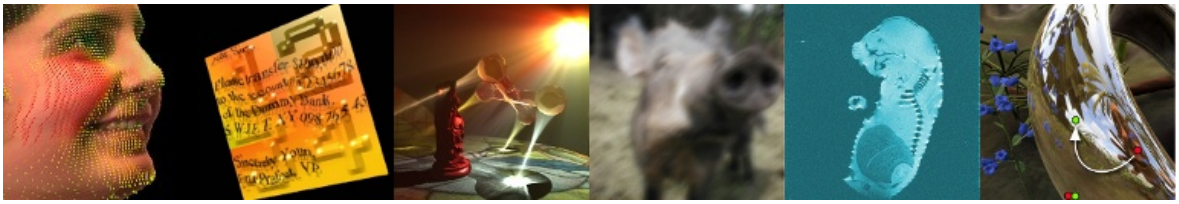

The information on this page is preliminary and might still change slightly.

- **Information Meeting on Visual Computing**
  Monday, October 16, 2017 at 2:15 pm in **E2.4, Room 115 (Seminar Room IV)**
  All Visual Computing students and other interested people are welcome.

Preliminary List of Classes Offered in the Winter Semester 2017/2018

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Image Acquisition Methods (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by P. Peter
      Thu 10-12, Building E1.3, Lecture Hall 3

    - Ultrasound Imaging (4 CP)
      Classroom lectures (2h) given by M. Fournelle
      Mon 16-18, Building E2.6, Room E 12

    - Physikalische Akustik 2 (3 CP)
      Classroom lectures (2h) given by M. Spies
      Thu 8.30-10, Building E3.1, Seminar Room

  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Differential Equations in Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Weickert
      Tue 08-10, Fri 10-12, Building E1.3, Lecture Hall 1

    - Advanced Image Analysis (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by P. Peter
      Thu 16-18, Building E1.3, Lecture Hall 3

    - Probabilistic Graphical Models and their Applications (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by B. Schiele
      Mon 10-12, Tue 10-12, Building E1.4, Seminar Room 0.23

  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Computer Graphics (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Slusallek
      Mon 14-16, Wed 10-12, Building E1.3, Lecture Hall 1

        - Perception for Computer Graphics (3 CP)
          Classroom lectures (2h) given by K. Myszkowski and P. Didyk
          Wed 10-12, Building E1.4, Room 019

    - **Seminars:**
      (You need at least 8 graded CP from this category.)
        - Hybrid Video Coding (8 CP)
          Seminar given by S. Andris and J. Weickert
          Tue 16-18, Building E1.7, Room 410

        - Software Design and Architectures for Interactive Avatars: a Hands-on Approach (8 CP)
          Seminar given by F. Nunnari and A. Heloir
          Fri 10-12, Building E1.1, Seminar Room 1.06

        - Making Mixed Reality (VR/AR) great again! (8 CP)
          Seminar given by M. Speicher, A. Zenner and D. Degraen
          Tue 10-12, Building D3 (DFKI), Room -2.17

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
    - Neural Networks: Implementation and Application (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by D. Klakow
      Tue 14-16, Building E1.3, Lecture Hall 1

    - Telecommunications I (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by T. Herfet
      Tue 12-14, Wed 8-10, Building E1.3, Lecture Hall 1

    - Future Media Internet (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by T. Herfet
      Tue 14-16, Wed 12-14, Building C6.3, Room 9.05

    - Automatic Planning (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Hoffmann
      Mon 10-12, Tue 10-12, Building E1.3, Lecture Hall 3

    - Tensors in Data Analysis (5 CP)
      Block course given by P. Miettinen
      From October 9 to October 13, 10-12, 12-14, Building E1.4, Room 023

    - Information Retrieval and Data Mining (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Vreeken and J. StrÃ¶tgen
      Wed 14-16, Fri 12-14, Building E1.3, Lecture Hall 2

    - Elements of Statistical Learning (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by T. Lengauer
      Wed 10-12, Building E2.1, Seminar Room 0.01

    - Human Computer Interaction (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Steimle
      Tue 16-18, Thu 16-18, Building E2.2, Lecture Hall 1

- Text-to-speech Synthesis (3 CP)
  Classroom lectures (2h) given by B. MÃ¶bius
  Tue 16-18, Building C7.2, Seminar Room

- Consider also specialised classes in computational linguistics.

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:
    - Convex Analysis in Image Processing (6 CP)
      Classroom lectures (3h) with tutorials (1h) given by M. Augustin
      Mon 12-14, Thu 08-10, Building E1.3, Lecture Hall 1

    - Numerics I (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by T. Schuster
      Tue 08-10, Thu 14-16, Building E2.5, Lecture Hall 1

    - Stochastics II (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by H. ZÃ¤hle
      Tue 10-12, Thu 10-12, Building E2.4, Seminar Room 6

    - Functional Analysis I (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by M. Weber
      Tue 14-16, Thu 14-16, Building E2.4, Lecture Hall 4

    - Parameter Identification for PDEs (3 CP)
      Classroom lectures (2h) given by A. Wald
      Wed 12-14, Building E2.4, Seminar Room 6

    - Computer Algebra (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by M. Sagraloff
      Mon 12-14, Wed 12-14, Building E1.4, Room 24

    - Differentialgeometrie 1 (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by M. Fuchs
      Fri 12-14, Building E2.4, Lecture Hall 4

  - Classes in Computer Science:
    - Algorithms and Data Structures (9 CP)
      Block Course given by R. Seidel
      TBA

    - GrundzÃ¼ge von Algorithmen und Datenstrukturen (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by H. Dell
      (not for students with a B.Sc. in Computer Science)
      Thu 12-14, Building E2.2, Lecture Hall 1

    - Programmierung 1 (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by B. Finkbeiner
      (not for students with a B.Sc. in Computer Science)
      Tue 14-16, Thu 10-12, Building E2.2, Lecture Hall 1

- Classes in Mechatronics:
  - Grundlagen der Signalverarbeitung (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by D. Klakow
    Mon 10-13, Building A5.1, Lecture Hall 1 (-1.03)

- Classes in Physics:
  - Elementare EinfÃ¼hrung in die Physik I (4 CP)
    Classroom lectures (2h) with tutorials (2h) given by F. MÃ¼ller
    Wed 10-12, Building C6.4, Lecture Hall (0.10)

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)

  - Work as a tutor (4 CP)

  - German as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science.

  - English as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science.

  - The International Office of Saarland University offers a number of foreign and German language courses .

  - Classes on other foreign languages are offered by the Language Center .

  - Any of the classes of the first three categories.

  - Classes in humanities (cognitive science, etc.) after approval in advance .

  A detailed description of the contents of these classes can be found in our Handbook of Module Descriptions .

  The campus map may help you to localise the individual buildings.

  If you spot some errors or have proposals for adding additional classes to this list, please contact Joachim Weickert .

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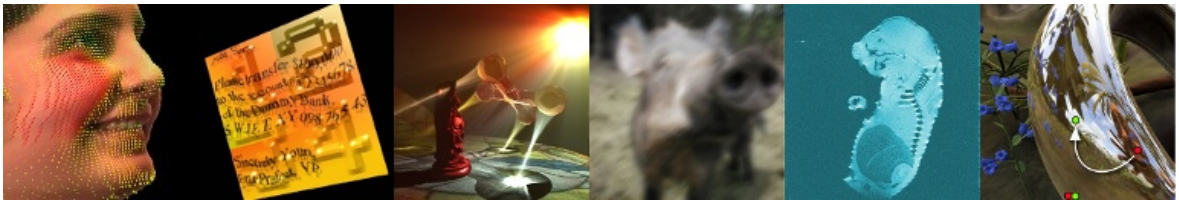

- **Information Meeting on Visual Computing**
  Monday, April 9, 2018 at 2:15 pm in E2.4, Lecture Hall 4
  All Visual Computing students and other interested people are welcome.

Preliminary List of Classes Offered in the Summer Semester 2018

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Geometric Modeling (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by H.P. Seidel and R. Zayer
      Mon 14-16, Wed 12-14, Building E1.3, Lecture Hall 3

    - Physikalische Akustik 1 (3 CP)
      Classroom lectures (2h) given by M. Spies
      Thu 8.30-10, Building E3.1, Seminar room of the IZFP

  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Weickert
      Tue 10-12, Fri 10-12, Building E1.3, Lecture Hall 1

    - Image Compression (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Peter
      Mon 12-14, Wed 10-12, Building E1.3, Lecture Hall 1

    - High Level Computer Vision (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by B. Schiele and M. Fritz
      Wed 14-16, Building E1.4, Seminar Room 0.24

  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Realistic Image Synthesis (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Slusallek, K. Myszkowski, and G. Singh
      Mon 10-12, Thu 10-12, Building E1.3, Lecture Hall 1

  - **Seminars:**
    (You need at least 8 graded CP from this category.)
    - Machine Learning for Image Analysis (8 CP)
      Seminar given by L. Bergerhoff and J. Weickert
      Wed 16-18, Building E1.7, Room 410

- Rendering Techniques (8 CP)
  Seminar given by P. Slusallek, S. Lemme, and A. PÃ©rard-Gayot
  Thu 14-16, Building E1.4, Room 0.21

- 3D Shape Analysis (8 CP)
  Seminar given by F. Bernard and C. Theobalt
  Thu 14-16, Building E1.4, Rooms 0.19/0.21

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
  - Artificial Intelligence (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by W. Wahlster and A. Torralba
    Tue 16-18, Thu 16-18, Building E2.2, Lecture Hall 0.01

  - Telecommunications II (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 12-14, Wed 8-10, Building C6.3, Seminar Room 9.05

  - Topics in Algorithmic Data Analysis (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by J. Vreeken
    Thu 14-16, Building E1.7, Room 0.01

  - Statistical Natural Language Processing (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by D. Klakow
    Fri 8.30-10, Building E1.3, Lecture Hall 1

  - ZerstÃ¶rungsfreie PrÃ¼fverfahren I (4 CP)
    Classroom lectures (2h) given by C. Boller
    Thu 8.30-10, Building E2.5, Lecture Hall 3

  - Consider also specialised classes in computational linguistics.

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:
    - Numerical Algorithms for Visual Computing (6 CP)
      Classroom lectures (3h) with tutorials (1h) given by M. Augustin
      Tue 8-10, Building E1.3, Lecture Hall 3
      Thu 12-14, Building E1.3, Lecture Hall 1

    - Continuous Optimization (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by P. Ochs
      Tue 14-16, Building E2.4, Lecture Hall 4

    - Analytical Methods for PDEs (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by Y. Kinderknecht
      Thu 8-10, Building E2.4, Lecture Hall 4
      Thu 14-16, Building E2.4, Seminar Room 6

- Differential Geometrie II (6 CP)
  Classroom lectures (2h) with tutorials (2h) given by M. Fuchs
  Wed 10-12, Building E2.4, Lecture Hall 4

- Numerics II (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by S. Weisser
  Tue 8-10, Thu 14-16, Building E2.5, Lecture Hall 3

- Stochastik I (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by C. Bender
  Mon 12-14, Wed 8-10, Building E2.4, Seminar Room 6

- Mathematische Statistik (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by H. ZÃ¤hle
  Tue 10-12, Thu 10-12, Building E2.4, Seminar Room 6

- Classes in Computer Science:
  - Optimization (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by A. Karrenbauer
    Tue 14-16, Thu 14-16, Building E1.3, Lecture Hall 1

  - Embedded Systems (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by B. Finkbeiner
    Tue 12-14, Thu 10-12, Building E1.3, Lecture Hall 3

  - Algorithms for Sequence Analysis (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by T. Marschall and M. Schulz
    Tue 14-16, Building E1.7, Room 001

  - Programmierung 2 (9 CP)
    (only if you do not hold a Bachelor's degree in computer science)
    Classroom lectures (4h) with tutorials (2h) given by S. Hack and J. Hoffmann
    Tue 14-16, Fri 8-10, Building E2.2, Lecture Hall 0.01

  - Systemarchitektur (9 CP)
    (only if you do not hold a Bachelor's degree in computer science)
    Classroom lectures (4h) with tutorials (2h) given by J. Reineke
    Mon 8-10, Wed 8-10, Building E2.2, Lecture Hall 0.01

  - Softwarepraktikum (9 CP)
    (only if you do not hold a Bachelor's degree in computer science)
    Classroom lectures (4h) with tutorials (2h)

- Classes in Mechatronics:
  - Digitale Signalverarbeitung / Digital Signal Processing (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by D. Klakow
    Mon 10-12, Building A5.1, Lecture Hall -1.03

- Classes in Physics:
  - Elementare EinfÃ¼hrung in die Physik II (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by F. MÃ¼ller
    Wed 10-12, Building C6.4, Lecture Hall 0.10

- Physik fÃ¼r Ingenieure II (5 CP)
  Classroom lectures (2h) with tutorials (1h) given by R. Birringer
  Mon 12-14, Building C6.4, Lecture Hall 0.10

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)
  - Work as a tutor (4 CP)
  - German as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science.
  - English as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science.
  - The International Office of Saarland University offers a number of German language courses .
  - Classes on other foreign languages are offered by the Language Center .
  - Any of the classes of the first three categories.
  - Classes in humanities (cognitive science, etc.) after approval in advance .

  A detailed description of the contents of these classes can be found in our Handbook of Module Descriptions .

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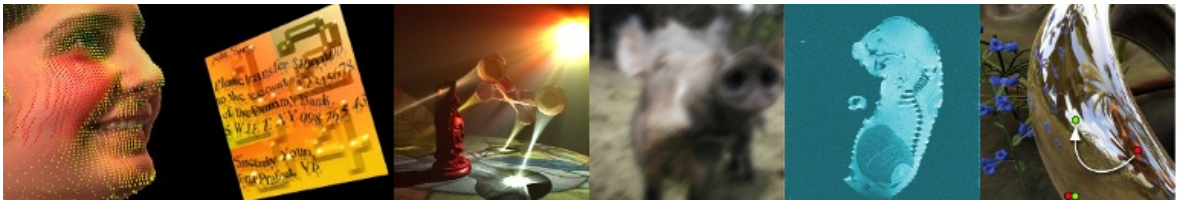

- **Information Meeting on Visual Computing**
  Monday, October 15, 2018 at 2:15 pm in **E 2.4, Room 115 (Seminar Room IV)**
  All Visual Computing students and other interested people are welcome.

Preliminary List of Classes Offered in the Winter Semester 2018/2019

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Image Acquisition Methods (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by P. Peter
      Thu 14-16, Building E 1.3, Lecture Hall 1

    - Ultraschall (Ultrasound Imaging) (4 CP)
      Classroom lectures (2h) given by M. Fournelle
      Mon 16-18, Building E 2.6, Room E 11

    - Physikalische Akustik 2 (4 CP)
      Classroom lectures (2h) given by M. Spies
      Thu 8:30-10, Building E 3.1, Seminar Room

  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Differential Equations in Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Peter
      Tue 10-12, Fri 14-16, Building E 1.3, Lecture Hall 1

    - Probabilistic Graphical Models and their Applications (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by G. Pons-Moll and P. Swoboda
      Wed 14-16, Fri 10-12, Building E 1.4, Room 024

  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Computer Graphics (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Slusallek
      Mon 10-12, Thu 08-10, Building E 1.3, Lecture Hall 1

    - Perception for Computer Graphics (3 CP)
      Classroom lectures (2h) given by K. Myszkowski and O. T. Tursun
      Wed 12-14, Building E 1.4, Room 019

  - **Seminars:**
    (You need at least 8 graded CP from this category.)

- Advances in Image Processing and Computer Vision (8 CP)
  Seminar (2h) given by L. Bergerhoff and J. Weickert
  Wed 16-18, Building E 1.7, Room 4.10

- Computational Fabrication (8 CP)
  Seminar (2h) given by H.-P. Seidel and V. Babaei
  Fri 16-18, Building E 1.7, Room 323

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
  - Telecommunications I (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 12-14, Wed 08-10, Building E 1.3, Lecture Hall 1

  - Future Media Internet (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 14-16, Wed 12-14, Building C 6.3, Room 9.05

  - Neural Networks: Implementation and Application (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by D. Klakow
    Tue 14-16, Building E 1.3, Lecture Hall 2

  - The Elements of Statistical Learning (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by T. Marschall and J. Vreeken
    Thu 10-12, Building E 2.1, Room 1

  - Machine Learning (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by B. Schiele
    Mon 14-16, Wed 10-12, Building E 1.3, Lecture Hall 2

  - AI Planning (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by Ã. Torralba and C. Croitoru
    Tue 12-14, Wed 16-18, Building E 1.3, Lecture Hall 2

  - Human Computer Interaction (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by J. Steimle
    Tue 10-12, Wed 14-16, Building E 1.3, Lecture Hall 2

  - Kinematik, Dynamik und Anwendung in der Robotik (4 CP)
    Classroom lectures (3h) given by R. MÃ¼ller
    Thu 14:15-17:30, ZeMA, Eschberger Weg 46

  - Mensch-Roboter-Kooperation in der industriellen Produktion (4 CP)
    Block course given by R. MÃ¼ller
    ZeMA, Eschberger Weg 46

  - Consider also specialised classes in computational linguistics.

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)

Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.

- Classes in Mathematics:
  - Interpolation and Approximation for Visual Computing (6 CP)
    Classroom lectures (3h) with tutorials (1h) given by M. Augustin
    Mon 12-14, Building E 1.3, Lecture Hall 1
    Wed 16-18, Building E 1.3, Lecture Hall 3
  - Convex Analysis and Optimization (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by P. Ochs
    Tue 14-16, Thu 10-12, Building E 1.3, Lecture Hall 3
  - Functional Analysis I (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by D. Schillo
    Tue 14-16, Thu 14-16, Building E 2.4, Lecture Hall 4 (1.15)
  - Partial Differential Equations I (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by M. Fuchs
    Mon 12-14, Wed 10-12, Building E 2.4, Lecture Hall 4 (1.15)
  - Modeling with Partial Differential Equations (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by S. Rjasanow
    Tue 10-12, Building E 2.4, Seminar Room 6
    Thu 08-10, Building E 2.5, Lecture Hall 3
  - Tensor Product Approximations and Inverse Problems (3 CP)
    Classroom lectures (2h) given by A. Wald
    Wed 12-14, Building E 2.4, Seminar Room 6
  - Minimal Surfaces (5 CP)
    Classroom lectures (2h) with tutorials (2h) given by M. Fuchs
    Fri 12-14, Building E 2.4, Seminar Room 10
  - Operator Semigroups, Markov Processes and Evolution Equations (5 CP)
    Classroom lectures (2h) with tutorials (2h) given by Y. Kinderknecht
    Thu 10-12, Building E 2.4, Seminar Room 9
  - Non-Parametric Regression (5 CP)
    Classroom lectures (2h) with tutorials (2h) given by C. Bender
    Thu 12-14, Building E 2.4, Seminar Room 10
  - Stochastics II (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by C. Bender
    Mon 12-14, Thu 10-12, Building E 2.4, Seminar Room 10
- Classes in Computer Science:
  - Algorithms and Data Structures (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by R. Seidel
    Wed 08-10, Thu 12-14, Building E 1.3, Lecture Hall 2
  - Multivariate Algorithmics (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by K. Bringmann and H. Dell
    Tue 16-18, Thu 16-18, Building E 1.4, Room 024

- Randomized and Approximation Algorithms (6 CP)
  Classroom lectures (2h) with tutorials (2h) given by A. Antoniadis and M. KÃ¼nnemann
  Tue 14-16, Thu 14-16, Building E 1.4, Room 024

- Algorithms on Directed Graphs (5 CP)
  Classroom lectures (4h) given by S. Amiri, W. Rosenbaum and E. Oh
  Mon 10-12, Wed 16-18, Building E 1.4, Room 024

- Space Informatics (5 CP)
  Block course given by J. Fraire and H. Hermanns
  Building E 1.3, Lecture Hall 1

- Programmierung 1 (9 CP)
  (only if you do not hold a Bachelor's degree in computer science)
  Classroom lectures (4h) with tutorials (2h) given by G. Smolka
  Tue 14-16, Thu 10-12, Building E 2.2, Lecture Hall 1

- GrundzÃ¼ge von Algorithmen und Datenstrukturen (6 CP)
  (only if you do not hold a Bachelor's degree in computer science)
  Classroom lectures (2h) with tutorials (2h) given by W. J. Paul
  Thu 12-14, Building E 2.2, Lecture Hall 1

- Classes in Mechatronics:
  - Grundlagen der Signalverarbeitung (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by D. Klakow
    Mon 10-13, Building A 5.1, Lecture Hall 1.03

- Classes in Physics:
  - Elementare EinfÃ¼hrung in die Physik I (5 CP)
    Classroom lectures (2h) with tutorials (2h) given by F. MÃ¼ller
    Wed 10-12, Building C 6.4, Lecture Hall 0.10

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)

  - Work as a tutor (4 CP)

  - German as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science.

  - English as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science.

  - The International Office of Saarland University offers a number of foreign and German language courses .

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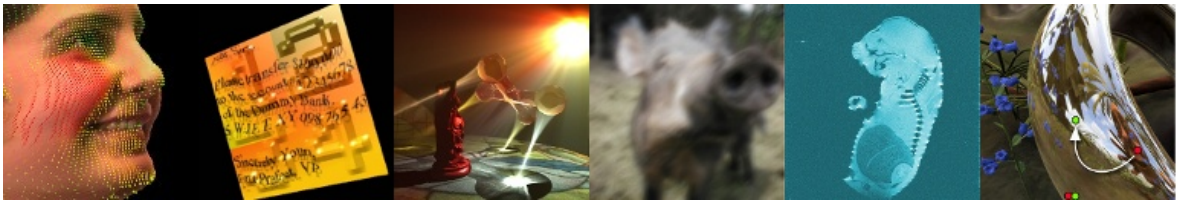

- **Information Meeting on Visual Computing**
  Monday, April 8, 2018 at 2:15 pm in **E 2.4, Room 115 (Seminar Room IV)**
  All Visual Computing students and other interested people are welcome.

Preliminary List of Classes Offered in the Summer Semester 2019

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Physikalische Akustik I (3 CP)
      Classroom lectures (2h) with tutorials (2h) given by M. Spies
      Thu 8:30-10, Building E 3.1, Seminar Room
  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Weickert
      Tue 10-12, Fri 10-12, Building E 1.3, Lecture Hall 1
    - Image Compression (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Peter
      Mon 12-14, Fri 14-16, Building E 1.3, Lecture Hall 1
    - High-Level Computer Vision (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by B. Schiele and M. Fritz
      Wed 10-12, Building E 1.4, Room 024
  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Realistic Image Synthesis (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Slusallek, K. Myszkowski and G. Singh
      Tue 8-10, Fri 12-14, Building E 1.3, Lecture Hall 1
    - Computation and Fabrication (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by V. Babaei and H.-P. Seidel
      Wed 14-16, Building E 1.7, Room 0.08
  - **Seminars:**
    (You need at least 8 graded CP from this category.)
    - Inverse Problems in Image Processing (8 CP)
      Seminar (2h) given by L. Bergerhoff and J. Weickert
      Thu 16-18, Building E 1.7, Room 4.10

- Real-Time Rendering (8 CP)
  Seminar (2h) given by S. Lemme, A. PÃ©rard-Gayot, R. Membarth and P. Slusallek
  Starts on: 9 April Tue 16-18, Building E 1.1, Room E 09

- Computer Vision and Machine Learning for Computer Graphics (8 CP)
  Seminar (2h) given by C. Theobalt, M. Elgharib and V. Golyanik
  Thu 14-16, Building E 1.4, Room 021

- Motion Synthesis for Virtual Characters (8 CP)
  Seminar (2h) given by K. Fischer
  Wed 16-18, Building D 3.2, Room "Turing 1" (NB R +2.30)

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
  - Artificial Intelligence (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by J. KÃ¶hler and Ã. Torralba

    Mon 14-16, Building E 2.5, Lecture Hall 1
    Tue 16-18, Building E 2.2, Lecture Hall 1

  - Audio/Visual Communication and Networks (Telecommunications II) (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 12-14, Wed 8-10, Building C 6.3, Room 9.05

  - Topics in Algorithmic Data Analysis (6 CP)
    Classroom lectures (2h) with assignments given by J. Vreeken
    Thu 10-12, (Tue 10-12), Building E 1.7, Room 0.01

  - Topics in Neural Information Retrieval (6 CP)
    Classroom lectures (2h) with assignments given by A. Yates
    Tue 14-16, Building E 1.5, Room 029

  - Statistical Natural Language Processing (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by D. Klakow
    Fri 8:30-10, Building E 1.3, Lecture Hall 3

  - ZerstÃ¶rungsfreie PrÃ¼fverfahren I (4 CP)
    Classroom lectures (2h) with tutorials (2h) given by C. Boller
    Thu 8:30-10, Building E 2.5, Lecture Hall 3

  - Consider also specialised classes in computational linguistics.

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:
    - Numerical Algorithms for Visual Computing (6 CP)
      Classroom lectures (3h) with tutorials (1h) given by M. Augustin
      Mon 14-18, Thu 12-14, Building E 1.3, Lecture Hall 1

- Numerical Methods for ODEs (6/9 CP)
  Classroom lectures (3h) with tutorials (1h) given by P. Ochs
  Tue 16-18, Thu 8-10, Building E 1.3, Lecture Hall 1

- Numerical Internship in Computerized Tomography (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by A. Wald
  Mon 10-12, Wed 12-14, Building E 2.4, Seminar Room 6

- Computer Algebra (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by F.-O. Schreyer
  Tue 12-14, Thu 10-12, Building E 1.3, Lecture Hall 1

- Partial Differential Equations II (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by M. Fuchs
  Mon 10-12, Wed 10-12, Building E 2.4, Lecture Hall 4

- Stochastics I (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by C. Bender
  Mon 12-14, Wed 8:30-10, Building E 2.4, Seminar Room 6 (2.17)

- Classes in Computer Science:
  - Optimization (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by A. Karrenbauer
    Tue 14-16, Thu 14-16, Building E 1.4, Room 024

  - Distributed and Sequential Graph Algorithms (5 CP)
    Classroom lectures (2h) with tutorials (2h) given by S. Amiri and P. Misra
    Tue 10-12, Building E 1.4, Room 024

  - Information Theory (3 CP)
    Block course given by V. Damberg, M. Crocker and A. Mogadala

  - Programmierung 2 (9 CP)
    (only if you do not hold a Bachelor's degree in computer science)
    Classroom lectures (4h) with tutorials (2h) given by J. Hoffmann
    Tue 14-16, Fri 8-10, Building E 2.2, Lecture Hall 1

  - Systemarchitektur (9 CP)
    (only if you do not hold a Bachelor's degree in computer science)
    Classroom lectures (4h) with tutorials (2h) given by J. Reineke
    Wed 9-10, Fri 12-14, Building E 2.2, Lecture Hall 1

  - Softwarepraktikum (9 CP)
    (only if you do not hold a Bachelor's degree in computer science)
    Classroom lectures (4h) given by A. Zeller

- Classes in Mechatronics:
  - Digital Signal Processing (6 CP)
    Classroom lectures (2h) with tutorials (1h) given by D. Klakow
    Mon 10-12, Building A 5.1, Lecture Hall 1 (-1.03)

  - Multisensorsignalverarbeitung (4 CP)
    Classroom lectures (2h) with tutorials (2h) given by A. SchÃ¼tze
    Mon 10-12, Building A 5.1, Lecture Hall 1 (-1.22)

- Classes in Physics:
  - Elementare EinfÃ¼hrung in die Physik I (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by F. MÃ¼ller
    Wed 10-12, Building C 6.4, Lecture Hall 0.10

  - Physik fÃ¼r Ingenieure II (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by R. Birringer
    Mon 12-14, Building C 6.4, Lecture Hall 0.10

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)

  - Work as a tutor (4 CP)

  - German as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science.

  - English as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science.

  - The International Office of Saarland University offers a number of foreign and German language courses .

  - Classes on other foreign languages are offered by the Language Center .

  - Any of the classes of the first three categories.

  - Classes in humanities (cognitive science, etc.) after approval in advance .

  A detailed description of the contents of these classes can be found in our Handbook of Module Descriptions .

  The campus map may help you to localise the individual buildings.

  If you spot some errors or have proposals for adding additional classes to this list, please contact Joachim Weickert .

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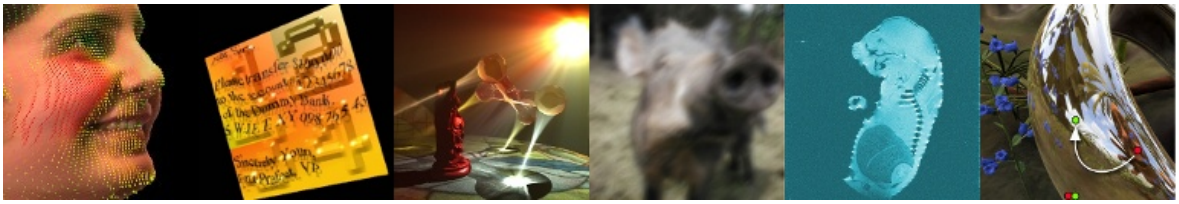

- **Information Meeting on Visual Computing**
  Monday, October 14, 2019 at 2:15 pm in **E 2.4, Room 115 (Seminar Room IV)**
  All Visual Computing students and other interested people are welcome.

Preliminary List of Classes Offered in the Winter Semester 2019/2020

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Image Acquisition Methods (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by P. Peter
      Fri 12-14, Building E 1.3, Lecture Hall 1

    - Geometric Modeling (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by R. Zayer
      Mon 14-16, Thu 16-18, Building E 1.3, Lecture Hall 3

    - Ultraschall (Ultrasound Imaging) (4 CP)
      Classroom lectures (2h) given by M. Fournelle
      Mon 16-18, Building E 2.6, Room E 11

    - Physikalische Akustik 2 (4 CP)
      Classroom lectures (2h) given by M. Spies
      Thu 8:30-10, Building E 3.1, Seminar Room

  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Differential Equations in Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Weickert
      Wed 10-12, Fri 10-12, Building E 1.3, Lecture Hall 1

    - Differential Geometric Aspects of Image Processing (6 CP)
      Classroom lectures (3h) with tutorials (1h) given by M. Cardenas
      Tue 16-18, Thu 14-16, Building E 1.3, Lecture Hall 3

  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Computer Graphics (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Slusallek
      Mon 10-12, Thu 08-10, Building E 1.3, Lecture Hall 1

  - **Seminars:**
    (You need at least 8 graded CP from this category.)

- Deep Learning: From Mathematical Foundations to Image Compression (8 CP)
  Seminar (2h) given by P. Peter and J. Weickert
  Wed 16-18, Building E 1.7, Room 4.10

- Computational Design and Manufacturing (8 CP)
  Seminar (2h) given by H.-P. Seidel and V. Babaei
  Fri 10-12, Building E 1.7, Room 0.08

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
  - Digital Transmission & Signal Processing (Telecommunications I) (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 12-14, Wed 08-10, Building E 1.3, Lecture Hall 1

  - Multimedia Transport (Future Media Internet) (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 14-16, Wed 12-14, Building C 6.3, Room 9.05

  - Elements of Data Science and Artificial Intelligence (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by V. Demberg, J. Dittrich, J. Hoffmann, B. Schiele
    Mon 10-12, Thu 12-14, Building E 1.3, Lecture Hall 2

  - Information Retrieval and Data Mining (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by A. Yates and R.S. Roy
    Wed 16-18, Fri 14-16, Building E 1.3, Lecture Hall 2

  - Human Computer Interaction (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by J. Steimle
    Tue 10-12, Wed 14-16, Building E 1.3, Lecture Hall 2

  - Neural Networks: Theory and Implementation (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by D. Klakow
    Tue 14-16, Building E 1.3, Lecture Hall 2

  - Information Extraction (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by S. Razniewski
    Tue 10-12, Building E 1.4, Room 024

  - The Elements of Statistical Learning (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by T. Marschall and J. Vreeken
    Thu 10-12, Building E 2.1, Room 0.01

  - Machine Learning (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by P. Ochs
    Mon 14-16, Wed 10-12, Building E 1.3, Lecture Hall 2

  - AI Planning (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by J. Hoffmann
    Tue 12-14, Wed 10-12, Building E 1.3, Lecture Hall 3

  - Consider also specialised classes in computational linguistics.

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:
    - Interpolation and Approximation for Visual Computing (6 CP)
      Classroom lectures (3h) with tutorials (1h) given by M. Augustin
      Mon 12-14, Thu 12-14, Building E 1.3, Lecture Hall 1
    - Convex Analysis and Optimization (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Ochs
      Tue 14-16, Wed 16-18, Building E 1.3, Lecture Hall 3
    - Functional Analysis I (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by M. Groves
      Tue 12-14, Building E 2.4, Lecture Hall 4 (1.15)
      Thu 12-14, Building E 2.4, Seminar Room 10
    - Stochastics II (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by C. Bender
      Tue 8-10, Thu 8-10, Building E 2.4, Seminar Room 10
    - Brownian Motion and its Applications to PDEs (5 CP)
      Classroom lectures (2h) given by Y. Kinderknecht
      Thu 12-14, Building E 2.4, Seminar Room 9
    - Time Series Analysis (5 CP)
      Classroom lectures (2h) given by H. Zaehle
      Thu 10-12, Building E 2.4, Seminar Room 10
  - Classes in Computer Science:
    - Algorithms and Data Structures (9 CP)
      Block lecture given by R. Seidel
    - Software Engineering (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by S. Apel
      Mon 8-10, Tue 12-14, Building E 2.2, Lecture Hall 1
    - Programmierung 1 (9 CP)
      (only if you do not hold a Bachelor's degree in computer science)
      Classroom lectures (4h) with tutorials (2h) given by H. Hermanns
      Tue 14-16, Thu 10-12, Building E 2.2, Lecture Hall 1
    - GrundzÃ¼ge von Algorithmen und Datenstrukturen (6 CP)
      (only if you do not hold a Bachelor's degree in computer science)
      Classroom lectures (2h) with tutorials (2h) given by R. Seidel
      Thu 12-14, Building E 2.2, Lecture Hall 1
  - Classes in Mechatronics:
    - Grundlagen der Signalverarbeitung (5 CP)
      Classroom lectures (2h) with tutorials (1h) given by D. Klakow
      Mon 10-12, Mon 13-14, Building A 5.1, Lecture Hall 1.03
  - Classes in Physics:

- Elementare EinfÃ¼hrung in die Physik I (5 CP)
  Classroom lectures (2h) with tutorials (2h) given by F. MÃ¼ller
  Wed 10-12, Building C 6.4, Lecture Hall 0.10

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)

  - Work as a tutor (4 CP)
  - German as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science.
  - English as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science.
  - The International Office of Saarland University offers a number of foreign and German language courses .
  - Classes on other foreign languages are offered by the Language Center .
  - Any of the classes of the first three categories.
  - Classes in humanities (cognitive science, etc.) after approval in advance .

  A detailed description of the contents of these classes can be found in our Handbook of Module Descriptions .

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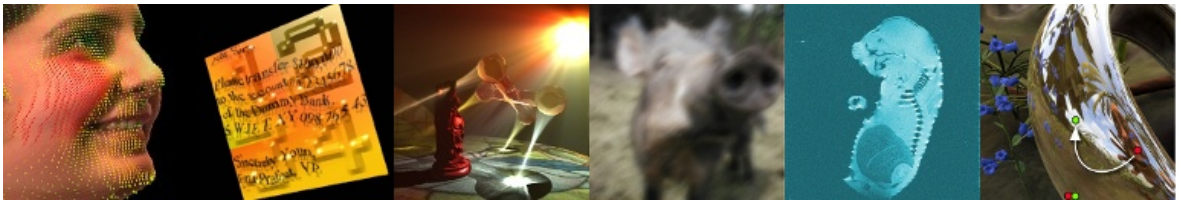

Preliminary List of Classes Offered in the Summer Semester 2020

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Physikalische Akustik I (3 CP)
      Classroom lectures (2h) with tutorials (2h) given by M. Spies
      Thu 8:30-10

  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Weickert
      Tue 10-12, Fri 10-12

    - Image Compression (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Peter
      Mon 14-16, Wed 12-14

    - High-Level Computer Vision (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by B. Schiele and M. Fritz
      Wed 10-12

  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Realistic Image Synthesis (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Slusallek, K. Myszkowski and G. Singh
      Mon 10-12, Thu 10-12

  - **Seminars:**
    (You need at least 8 graded CP from this category.)
    - Advances in Inpainting (8 CP)
      Seminar (2h) given by S.Andris, J.A.Tomasson and J. Weickert
      Wed 16-18

    - Computer Vision and Machine Learning for Computer Graphics (8 CP)
      Seminar (2h) given by C. Theobalt, M. Elgharib and V. Golyanik
      Thu 14-16

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)

- Artificial Intelligence (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by J. Hoffmann and J. KÃ¶hler
  Mon 16-18, Tue 14-16

- Audio/Visual Communication and Networks (Telecommunications II) (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by T. Herfet
  Tue 12-14, Wed 12-14

- Topics in Algorithmic Data Analysis (6 CP)
  Classroom lectures (2h) with assignments given by J. Vreeken
  Thu 10-12, (Tue 10-12)

- Statistical Natural Language Processing (6 CP)
  Classroom lectures (2h) with tutorials (2h) given by D. Klakow
  Fri 8:30-10

- ZerstÃ¶rungsfreie PrÃ¼fverfahren I (4 CP)
  Classroom lectures (2h) with tutorials (2h) given by C. Boller
  Thu 8:30-10

- Consider also specialised classes in computational linguistics.

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:
    - Numerical Algorithms for Visual Computing (6 CP)
      Classroom lectures (3h) with tutorials (1h) given by M. Augustin
      Tue 12-14, Fri 12-14

    - Continuous Optimisation (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Ochs
      Tue 8:30-10, Wed 8:30-10

    - Partial Differential Equations I (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by M. Groves
      Wed 14-16, Fri 12-14

    - Differential Geometry (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by M. Fuchs
      Mon 12-14, Wed 10-12

    - Numerical Methods for Partial Differential Equations (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by S. Rjasanow
      Tue 10-12, Thu 10-12

  - Classes in Computer Science:
    - Optimization (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by A. Karrenbauer
      Wed 14-16, Thu 14-16

- Competitive Programming (6 CP)
  Classroom lectures (4h) with tutorials (2h) given by M. BlÃ¤ser, K. Bringmann, C. Weidenbach
  Tue 16-18

- Programmierung 2 (9 CP)
  (only if you do not hold a Bachelor's degree in computer science)
  Classroom lectures (4h) with tutorials (2h) given by S. Hack
  Tue 14-16, Fri 8:30-10

- Systemarchitektur (9 CP)
  (only if you do not hold a Bachelor's degree in computer science)
  Classroom lectures (4h) with tutorials (2h) given by J. Reineke
  Wed 8:30-10, Fri 12:30-2

- Softwarepraktikum (9 CP)
  (only if you do not hold a Bachelor's degree in computer science)
  Classroom lectures (4h) given by S. Apel

- Classes in Mechatronics:
  - Digital Signal Processing (6 CP)
    Classroom lectures (2h) with tutorials (1h) given by D. Klakow
    Mon 10-12

- **Additional Classes:**

(From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)

- Work as a tutor (4 CP)
- German as a Foreign Language for CS Students (6 CP)
  Lectures (4h) offered by the Max Planck Institute for Computer Science.
- English as a Foreign Language for CS Students (6 CP)
  Lectures (4h) offered by the Max Planck Institute for Computer Science.
- The International Office of Saarland University offers a number of foreign and German language courses .
- Classes on other foreign languages are offered by the Language Center .
- Any of the classes of the first three categories.
- Classes in humanities (cognitive science, etc.) after approval in advance .

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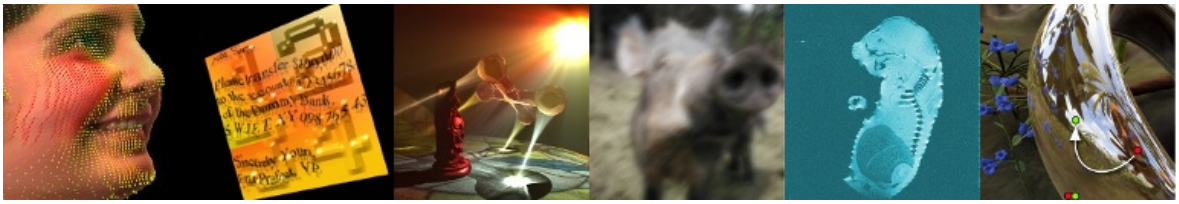

- **Information Meeting on Visual Computing**
  Monday, November 2, 2020 at 14:15 via Zoom:
  https://cs-uni-saarland-de.zoom.us/j/91421766322?pwd=M25tWHAvbllweU40cG5JaDdmek1Mdz09
  (If you cannot run it from your browser, use Chromium.)
  All Visual Computing students and other interested people are welcome.

Preliminary List of Classes Offered in the Winter Semester 2020/2021

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Image Acquisition Methods (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by P. Peter
      Fri 12-14

    - Geometric Modeling (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by R. Zayer
      Mon 12-14, Thu 14-16

    - Ultraschall (Ultrasound Imaging) (4 CP)
      Classroom lectures (2h) given by M. Fournelle
      Mon 16-18, Building E 2.6, Room E 11

    - Physikalische Akustik 2 (4 CP)
      Classroom lectures (2h) given by M. Spies
      Thu 8:30-10, Building E 3.1, Seminar Room

  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Differential Equations in Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Weickert
      Mon 10-12, Fri 10-12

    - Advanced Image Analysis (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by P. Peter
      Tue 8:30-10

    - Probabilistic Graphical Models and their Applications (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by B. Schiele
      Wed 14-16, Fri 8:30-10

- **Classes on Image Synthesis:**
  (You need at least 9 graded CP from this category.)
  - Computer Graphics (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by P. Slusallek
    Mon 14-16, Thu 08:30-10

  - Perception for Computer Graphics (3 CP)
    Classroom lectures (2h) given by K. Myszkowski and A. Serrano
    Wed 10-12

- **Seminars:**
  (You need at least 8 graded CP from this category.)
  - Deep Learning and Optimisation for Visual Computing (8 CP)
    Seminar (2h) given by J. Tomasson, K. Schrader and J. Weickert
    Tue 16-18

  - Light Field Representation Formats (8 CP)
    Seminar (2h) given by T. Herfet

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
  - Digital Transmission & Signal Processing (Telecommunications I) (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet and K. Chelli
    Tue 12-14, Wed 08-10

  - Multimedia Transport (Future Media Internet) (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet and P. Gil Pereira
    Tue 14-16, Wed 12-14

  - Human Computer Interaction (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by J. Steimle and P. Strohmeier
    Tue 10-12, Wed 14-16

  - Neural Networks: Theory and Implementation (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by D. Klakow
    Tue 14-16

  - Elements of Machine Learning (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by I. Valera and J. Vreeken
    Thu 14-16

  - AI Planning (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by J. Hoffmann
    Tue 14-16, Wed 10-12

  - Probabilistic Machine Learning (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by I. Valera
    Wed 16-18

  - Consider also specialised classes in computational linguistics.

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)

Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.

- Classes in Mathematics:
  - Interpolation and Approximation for Visual Computing (6 CP)
    Classroom lectures (3h) with tutorials (1h) given by M. Augustin
    Mon 16-18, Thu 12-14
  - Stochastics II (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by H. ZÃ¤hle
    Tue 8-10, Thu 8-10, Building E 2.4, Seminar Room 10
  - Computer Algebra and Groebner Bases (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by F. Schreyer
    Mon 10-12, Thu 10-12
- Classes in Computer Science:
  - Algorithms and Data Structures (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by K. Bringmann and M. KÃ¼nneman
    Tue 10-12, Fri 10-12
  - GPU Programming (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by R. Membarth, M. Kenzel and P. Slusallek
    Tue 12-14, Thu 16-18
  - Software Engineering (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by S. Apel
    Mon 8:30-10, Tue 8:30-10
  - Programmierung 1 (9 CP)
    (only if you do not hold a Bachelor's degree in computer science)
    Classroom lectures (4h) with tutorials (2h) given by B. Finkbeiner
    Tue 14-16, Thu 10-12
  - GrundzÃ¼ge von Algorithmen und Datenstrukturen (6 CP)
    (only if you do not hold a Bachelor's degree in computer science)
    Classroom lectures (2h) with tutorials (2h) given by R. Seidel
    Thu 12-14
- Classes in Mechatronics:
  - Grundlagen der Signalverarbeitung (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by D. Klakow
    Mon 10-12, Mon 12-13
- Classes in Physics:
  - Elementare EinfÃ¼hrung in die Physik I (5 CP)
    Classroom lectures (2h) with tutorials (2h) given by F. MÃ¼ller
    Wed 10-12

- **Additional Classes:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)

- Work as a tutor (4 CP)
- German as a Foreign Language for CS Students (6 CP)
  Lectures (4h) offered by the Max Planck Institute for Computer Science.
- English as a Foreign Language for CS Students (6 CP)
  Lectures (4h) offered by the Max Planck Institute for Computer Science.
- The International Office of Saarland University offers a number of foreign and German language courses .
- Classes on other foreign languages are offered by the Language Center .
- Any of the classes of the first three categories.
- Classes in humanities (cognitive science, etc.) after approval in advance .

A detailed description of the contents of these classes can be found in our Handbook of Module Descriptions .

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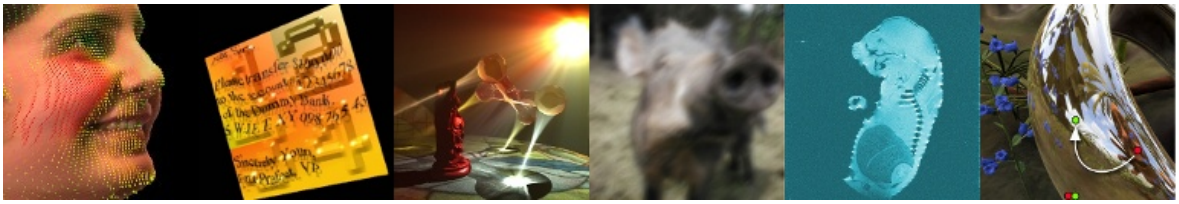

- **Information Meeting on Visual Computing**
  Monday, April 12, 2021 at 14:15 via Zoom:
  https://cs-uni-saarland-de.zoom.us/j/97403002160
  Passcode: 973018
  (If you cannot run it from browser, use Chromium.)
  All Visual Computing students and other interested people are welcome.

List of Classes Offered in the Summer Semester 2021

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition and Geometric Foundations:**
    (You need at least 4 CP from this category.)
    - Physikalische Akustik I (3 CP)
      Classroom lectures (2h) given by U. Rabe
      Thu 8-10

    - Numerical Laboratory in Computerized Tomography (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by T. Schuster
      Tue 14-16, Thu 14-16

  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Image Processing and Computer Vision (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by J. Weickert
      Tue 10-12, Fri 10-12

    - Image Compression (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Peter
      Mon 12-14, Wed 14-16

    - High-Level Computer Vision (6 CP)
      Classroom lectures (2h) with tutorials (2h) given by B. Schiele
      Wed 10-12

  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Realistic Image Synthesis (9 CP)
      Classroom lectures (4h) with tutorials (2h) given by P. Slusallek, K. Myszkowski and G. Singh
      Mon 10-12, Thu 8-10

  - **Seminars:**
    (You need at least 8 graded CP from this category.)

- Connections of Deep Learning and PDEs for Visual Computing (8 CP)
  Seminar (2h) given by K. Schrader and J. Weickert
  Wed 16-18

- Computer Vision and Machine Learning for Computer Graphics (8 CP)
  Seminar (2h) given by C. Theobalt, M. Elgharib and V. Golyanik
  Thu 14-16

- Rendering Techniques (7 CP)
  Practical seminar given by S. Lemme, M. Kenzel, H. Devillers, A. PÃ©rard-Gayot and P. Slusallek

- Seminar on Reproducing Kernels and Machine Learning (8 CP)
  (only for students under the new study regulations)
  Seminar (2h) given by M. Hartz
  TBA

- Game Development Technologies (7 CP)
  Seminar (2h) given by J. Sprenger, N. Cheema, E. Herrmann, H. Du, L. Hell, A. Antakli, B. Duppe, M. Meiser, I. Vozniak, N. Lipp and P. Slusallek
  Tue 16-18

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
  - Artificial Intelligence (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by J. Hoffmann and J. KÃ¶hler
    Mon 16-18, Thu 16-18

  - Machine Learning (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by I. Valera
    Mon 14-16, Wed 16-18

  - Audio/Visual Communication and Networks (Telecommunications II) (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 12-14, Wed 8-10

  - Topics in Algorithmic Data Analysis (6 CP)
    Classroom lectures (2h) with assignments given by J. Vreeken
    Thu 10-12

  - Statistical Natural Language Processing (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by D. Klakow
    Fri 8-10

  - Consider also specialised classes in computational linguistics.

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:
    - Numerical Algorithms for Visual Computing (6 CP)
      Classroom lectures (3h) with tutorials (1h) given by M. Augustin

Tue 8-10, Thu 12-14

- Markov Processes (4 CP)
  Classroom lectures (2h) with tutorials (1h) given by T. Nguyen
  Wed 12-14

- Mathematical Statistics (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by H. ZÃ¤hle
  Tue 10-12, Thu 10-12

- Stochastik I (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by C. Bender
  Mon 14-16, Wed 8-10

- Modelling with Partial Differential Equations (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by S. Rjasanow
  Tue 10-12, Thu 8-10

- Classes in Computer Science:
  - Optimization (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by A. Karrenbauer
    Wed 14-16, Thu 14-16

  - Embedded Systems (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by M. Maggio
    Tue 14-16, Thu 10-12

  - Data Science (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by W. MaaÃŸ
    TBA

  - Space Informatics (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by J. Fraire and H. Hermanns
    Thu 14-16

  - Geometric Algorithms with Limited Resources (5 CP)
    Classroom lectures (2h) with tutorials (1h) given by T. Gouleakis and S. Kisfaludi-Bak
    Tue 10-12

  - Programmierung 2 (9 CP)
    (only if you do not hold a Bachelor's degree in computer science)
    Classroom lectures (4h) with tutorials (2h) given by S. Hack
    Tue 14-16, Fri 8-10

  - Systemarchitektur (9 CP)
    (only if you do not hold a Bachelor's degree in computer science)
    Classroom lectures (4h) with tutorials (2h) given by J. Reineke
    Wed 8-10, Fri 12-14

  - Softwarepraktikum (9 CP)
    (only if you do not hold a Bachelor's degree in computer science)
    Block course given by S. Apel

- Classes in Mechatronics:

        - Digital Signal Processing (6 CP)
          Classroom lectures (2h) with tutorials (2h) given by D. Klakow
          Mon 10-12

        - Multisensorsignalverarbeitung (4 CP)
          Classroom lectures (2h) with assignments given by A. SchÃ¼tze
          Mon 10-12

    - Classes in Physics:
        - Elementare EinfÃ¼rung in die Physik II (4 CP)
          Classroom lectures (2h) with tutorials (1h) given F. MÃ¼ller
          Wed 10-12

        - Physik fÃ¼r Ingenieure II (4 CP)
          Classroom lectures (2h) with tutorials (1h) given by R. Seemann
          Mon 12-14

- **Additional Classes:**

(From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)

- Work as a tutor (4 CP)
- German as a Foreign Language for CS Students (6 CP)
  Lectures (4h) offered by the Max Planck Institute for Computer Science.
- English as a Foreign Language for CS Students (6 CP)
  Lectures (4h) offered by the Max Planck Institute for Computer Science.
- The International Office of Saarland University offers German language courses .
- Classes on other foreign languages are offered by the Language Center .
- Any of the classes of the first three categories.
- Classes in humanities (cognitive science, etc.) after approval in advance .

A detailed description of the contents of these classes can be found in our Handbook of Module Descriptions .

The campus map may help you to localise the individual buildings.

If you spot some errors or have proposals for adding additional classes to this list, please contact Joachim Weickert .

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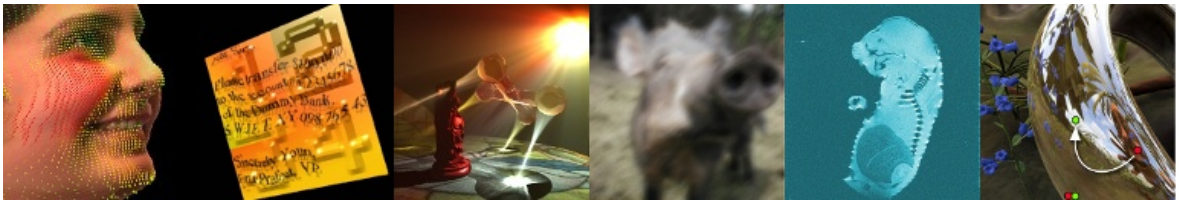

- **Information Meeting on Visual Computing**
  Monday, October 18, 2021 at 14:15 via Zoom:
  https://cs-uni-saarland-de.zoom.us/j/97403002160?pwd=Tk4rOG5PeUg2N2NNZkpXRTcvMU56dz09
  (If you cannot run it from your browser, try Chromium.)
  All Visual Computing students and other interested people are welcome.

Preliminary List of Classes Offered in the Winter Semester 2021/2022

- **Classes from the Core Areas of Visual Computing:**
  - **Classes on Image Acquisition (and Geometric Foundations in the old study regulations):**
    - Image Acquisition Methods (6 CP)
      Lectures (2h) with tutorials (2h) given by P. Peter
      Thu 10-12, Online
    - Ultraschall (Ultrasound Imaging) (4 CP)
      Lectures (2h) given by M. Fournelle
      Mon 16-18, E 2.6, Room E.12
    - Physikalische Akustik 2 (4 CP)
      Lectures (2h) given by M. Spies and U. Rabe
      Thu 8-10, E 3.1, GroÃŸer Seminarraum
    - Geometric Modeling (9 CP)
      Lectures (4h) with tutorials (2h) given by R. Zayer
      Mon 12-14, Thu 14-16, TBD
      (only if you are in the old study regulations; in the new regulations, it is in the category Image Synthesis)
  - **Classes on Image Analysis:**
    - Differential Equations in Image Processing and Computer Vision (9 CP)
      Lectures (4h) with tutorials (2h) given by J. Weickert
      Wed 10-12, Fri 10-12, Online
    - Advanced Image Analysis (6 CP)
      Lectures (2h) with tutorials (2h) given by P. Peter
      Mon 14-16, Online
  - **Classes on Image Synthesis:**
    - Computer Graphics (9 CP)
      Lectures (4h) with tutorials (2h) given by P. Slusallek
      Mon 10-12, Thu 12-14, TBD
    - Geometric Modeling (9 CP)
      Lectures (4h) with tutorials (2h) given by R. Zayer
      Mon 12-14, Thu 14-16, TBD

(only if you are in the new study regulations; in the old regulations, it is in the category Image Acquisition and Geometric Foundations)

- **Seminars:**
  Students can apply to seminars here:
  https://seminars.cs.uni-saarland.de/seminars2122
  - Milestones and Advances in Image Analysis
    (8 CP for students under the old study regulations and 7 CP for students under the new study regulations)
    Seminar (2h) given by K. Schrader and J. Weickert
    Tue 16-18, Online

  - Ray Tracing and Global Illumination
    (8 CP for students under the old study regulations and 7 CP for students under the new study regulations)
    Seminar (2h) given by P. Grittmann and P. Slusallek
    TBD

  - **The following seminars are available only to students under the new study regulations:**

    - Adaptive Human Machine Interfaces for Autonomous Systems (7 CP)
      Seminar (2h) given by M. Feld, A. Gomaa, N. Kleer, M. Rekrut, G. Reyes, and J. Wolter
      Thu 16-18, Location TBD and Online

    - Adversarial Reinforcement Learning (7 CP)
      Seminar (2h) given by A. Singla and G. Radanovic
      TBD

    - CAUSETHICAL Machine Learning (7 CP)
      Seminar (2h) given by I. Valera, M. Rateike, P. Sanchez, and A. H. Karimi
      Tue 16-18, TBD

    - Hybrid Learning and Reasoning (7 CP)
      Seminar (2h) given by M. Klusch, A. Nonnengart, and P. Gupta
      Fri 14-16, Online

    - Interactive Touch Surfaces (7 CP)
      Block Seminar given by J. Steimle and N. Pourjafarian
      TBD

    - Machine Learning for Natural Language Processing (7 CP)
      Block Seminar given by D. Klakow
      TBD

    - Neural Networks in AI Planning (7 CP)
      Block Seminar given by J. Hoffmann
      TBD

    - Pruning deep neural networks for Lottery Tickets (7 CP)
      Block Seminar given by R. Burkholz
      TBD

- SupRTwin: Sensing, Understanding, and Provisioning of Robotic Digital Twins (7 CP)
  Seminar given by T. Schwartz, D. Porta, A. Luxenburger, J. Mohr, C. Jacob, A. Kanso, X. Xu, and K. Rekik
  TBD, Power4Production Hall at ZeMA (Eschberger Weg 46, 66121 SaarbrÃ¼cken) and Online

- Trustworthy Graph Neural Networks (7 CP)
  Block Seminar given by A. Bojchevski
  TBD, Online

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  - Digital Transmission & Signal Processing (Telecommunications I) (9 CP)
    Lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 12-14, Wed 8-10, E 1.3, HS 001 and Online

  - Multimedia Transport (Future Media Internet) (9 CP)
    Lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 10-12, Wed 12-14, E 1.3, HS 001 and Online

  - Human Computer Interaction (9 CP)
    Lectures (4h) with tutorials (2h) given by J. Steimle
    Tue 10-12, Wed 14-16, Online

  - Neural Networks: Theory and Implementation (9 CP)
    Lectures (2h) with tutorials (2h) given by D. Klakow
    Tue 14-16, E 1.3, HS 002

  - Elements of Machine Learning (6 CP)
    Lectures (2h) with tutorials (2h) given by I. Valera and J. Vreeken
    Thu 16-18, E 2.2, HS 0.01 and Online

  - Reinforcement Learning (6 CP)
    Lectures (2h) with tutorials (2h) given by A. Singla, A. Ghosh, and R. Devidze
    TBD

  - AI Planning (9 CP)
    Lectures (4h) with tutorials (2h) given by J. Hoffmann, D. FiÅ¡er, D. Gnad, and D. HÃ¶ller
    Tue 14-16, Wed 10-12, E 1.3, HS 003

  - Consider also specialised classes in computational linguistics.

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:
    - Stochastics II (9 CP)
      Lectures (4h) with tutorials (2h) given by C. Bender
      Mon 12-14, Thu 8-10, TBD

    - Theorie und Numerik gewÃ¶hnlicher Differentialgleichungen (9 CP)
      Lectures (4h) with tutorials (2h) given by S. Rjasanow
      Tue 14-16, Thu 8-10, TBD

- Functional Analysis I (9 CP)
  Lectures (4h) with tutorials (2h) given by M. Hartz
  Mon 14-16, Thu 12-14, TBD

- Numerical Integration (5 CP)
  Lectures (2h) with tutorials (1h) given by S. Eberle
  Wed 12-14, Online

- Time series analysis (5 CP)
  Lectures (2h) with tutorials (1h) given by H. ZÃ¤hle
  Thu 14-16, Online

- Classes in Computer Science:
  - Algorithms and Data Structures (9 CP)
    Block lecture given by K. Bringmann and R. Seidel
    Mon, Tue, Thu, Fri 9-17, Thu 9-12, Location TBD and Online

  - Software Engineering (9 CP)
    Lectures (4h) with tutorials (2h) given by S. Apel
    Mon 8-10, Tue 12-14, Online

  - Programmierung 1 (9 CP)
    (only if you do not hold a Bachelor's degree in computer science)
    Lectures (4h) with tutorials (2h) given by G. Smolka
    Tue 14-16, Thu 10-12, E 2.2, HS 0.01 and Online

  - GrundzÃ¼ge von Algorithmen und Datenstrukturen (6 CP)
    (only if you do not hold a Bachelor's degree in computer science)
    Lectures (2h) with tutorials (2h) given by R. Seidel
    Thu 12-14, E 2.2, HS 0.01

- Classes in Mechatronics:
  - Grundlagen der Signalverarbeitung (5 CP)
    Lectures (2h) with tutorials (1h) given by D. Klakow
    Mon 10-12, Online

- Classes in Physics:
  - Elementare EinfÃ¼hrung in die Physik I (5 CP)
    Lectures (2h) with tutorials (2h) given by F. MÃ¼ller
    Wed 10-12, C 6.4, HS 0.10

  - EinfÃ¼hrung in die Quanteninformationsverarbeitung (5 CP)
    Lectures (2h) with tutorials (2h) given by F. Wilhelm-Mauch
    Mon 12-14, E 2.6, E04

- **Additional Classes:**
  (Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)

  - Work as a tutor (4 CP)

  - German as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science.

- English as a Foreign Language for CS Students (6 CP)
  Lectures (4h) offered by the Max Planck Institute for Computer Science.
- The International Office of Saarland University offers a number of German language courses .
- Classes on other foreign languages are offered by the Language Center .
- Any of the classes of the first three categories.
- Classes in humanities (cognitive science, etc.) after approval in advance .

A detailed description of the contents of these classes can be found in our Handbook of Module Descriptions .

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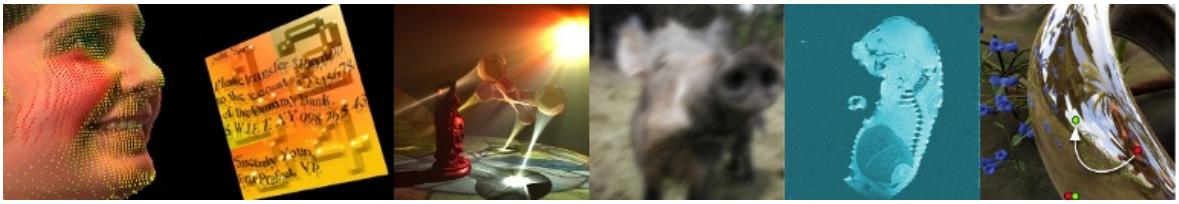

- **Information Meeting on Visual Computing**
  Monday, April 11, 2022 at 14:15 via Zoom:
  https://cs-uni-saarland-de.zoom.us/j/97403002160?pwd=Tk4rOG5PeUg2N2NNZkpXRTcvMU56dz09
  (If you cannot run it from your browser, try Chromium.)
  All Visual Computing students and other interested people are welcome.

List of Classes Offered in the Summer Semester 2022

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (From this category you need 53 CP with at least 35 graded CP.)
  - **Classes on Image Acquisition (and Geometric Foundations in the old study regulations):**
    (You need at least 4 CP from this category.)
    - Physikalische Akustik I (3 CP)
      Lectures (2h) given by U. Rabe and M. Spies
      Thu 8-10, E 3.1, Seminar room

  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this category.)
    - Image Processing and Computer Vision (9 CP)
      Lectures (4h) with tutorials (2h) given by J. Weickert
      Tue 10-12, Fri 10-12, Online

    - Image Compression (9 CP)
      Lectures (4h) with tutorials (2h) given by P. Peter
      Tue 8-10, Fri 14-16, Online

    - High-Level Computer Vision (6 CP)
      Lectures (2h) with tutorials (2h) given by B. Schiele
      Wed 10-12, E 1.4, Seminar room 0.24

    - Mathematical Morphology in Image Analysis (6 CP)
      Lectures (2h) with tutorials (2h) given by K. Schaefer and J. Weickert
      Thu 12-14, Online

    - Model-driven Deep Learning Lab for Image Analysis (6 CP)
      Lectures (2h) with tutorials (2h) given by K. Schrader and J. Weickert
      Wed 12-14, Online

  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this category.)
    - Realistic Image Synthesis (9 CP)
      Lectures (4h) with tutorials (2h) given by P. Slusallek, K. Myszkowski, and G. Singh

Mon 16-18, Thu 8-10, E 1.3, Lecture Hall 1

- **Seminars:**
  Students can apply to seminars here:
  https://seminars.cs.uni-saarland.de/seminars22
  - Deep Learning for Visual Computing
    (8 CP for students under the old study regulations and 7 CP for students under the new study regulations)
    Seminar (2h) given by P. Peter and P. Trampert
    Tue 16-18, Online

  - Algorithms for Realtime Raytracing
    (8 CP for students under the old study regulations and 7 CP for students under the new study regulations)
    Project seminar given by A. Rath, Ã–. Yazici, and P. Slusallek
    TBA

  - Computer Vision and Machine Learning for Computer Graphics
    (8 CP for students under the old study regulations and 7 CP for students under the new study regulations)
    Seminar (2h) given by C. Theobalt, M. Habermann, and T. LeimkÃ¼hler
    Thu 14-16, TBA

  - Virtual Reality Game Development using a Rock Climbing Treadmill
    (8 CP for students under the old study regulations and 7 CP for students under the new study regulations)
    Seminar (2h) given by M. Altmeyer, F. Daiber, D. Degraen, and F. Kosmalla
    Mon 12-14, TBA

  The following seminars are available only to students under the new study regulations:
  - Brain Computer Interaction (7 CP)
    Project seminar given by M. Rekrut, M. Sharma, M. Nadig, and G. Reyes
    TBA, Online

  - Crowdsourcing High Quality Annotations and Experimental Data (7 CP)
    Seminar (2h) given by M. Scholman
    Mon 10-12, Online

  - Data-driven Understanding of the Disinformation Epidemic (7 CP)
    Seminar (2h) given by Y. Zhang
    TBA

  - Ethical AI - AI for ethics (7 CP)
    Seminar (2h) given by C. MÃ¼ller
    Mon 12-14, Online

  - Human-Centered Interface Design for Automated Cyber-Physical Systems (7 CP)
    Seminar (2h) given by A. Hirsch, N. Knieriemen, F. Wiehr, and L. Flohr
    Wed 14-16, Online

  - Machine Learning for Social Signal Processing (7 CP)
    Seminar (2h) given by P. MÃ¼ller, H. Lindsay, C. Bhuvaneshwara, and F. Nunnari
    Tue 14-16, Online

- Neuro-Symbolic Reinforcement Learning (7 CP)
  Block Seminar given by A. Singla
  TBA

- Psychological Theories for Intelligent and Interactive Systems (7 CP)
  Seminar (2h) given by A. M. Feit and M. Langer
  Mon 14-16, TBA

- Quantum Machine Learning (7 CP)
  Seminar (2h) given by M. Klusch and A. Macaluso
  Tue 16-18, Online

- Fourier Analysis (7 CP)
  (Contact the instructors directly to enroll)
  Seminar (2h) given by A. Buchheit and D. Seibel
  TBA

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (From this category you need 9 graded CP.)
  - Artificial Intelligence (9 CP)
    Lectures (4h) with tutorials (2h) given by J. Hoffmann, D. FiÅ¡er, D. HÃ¶ller, and S. Saller
    Mon 16-18, Thu 16-18, E 2.2, Lecture Hall 1

  - Machine Learning (9 CP)
    Lectures (4h) with tutorials (2h) given by M. Fritz
    Mon 16-18, Wed 16-18, E 1.3, Lecture Hall 2

  - Audio-Visual Communication and Networks (Telecommunications II) (9 CP)
    Lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 12-14, Wed 8-10, C 6.3, Seminar room 9.05

  - Topics in Algorithmic Data Analysis (6 CP)
    Lectures (2h) with assignments given by J. Vreeken
    Thu 10-12, E 9.1, Lecture Hall

  - Interactive Systems (6 CP)
    Lectures (4h) with tutorials (2h) given by M. Schmitz
    Thu 14-16, E 1.3, Lecture Hall 1

  - Text-to-speech Synthesis (3 CP)
    Lectures (2h) given by B. MÃ¶bius
    Thu 10-12, E 1.3, Lecture Hall 3

  - Data Science (6 CP)
    Lectures (2h) with projects given by W. MaaÃŸ
    Fri 10-12, B 4.1, Seminar room 0.07

  - Statistical Learning (5 CP)
    Lectures (2h) with tutorials (1h) given by C. Bender
    Thu 12-14, E 2.4, Seminar room 10

  - Consider also specialised classes in computational linguistics.

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed. Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:
    - Partial Differential Equations I (9 CP)
      Lectures (4h) with tutorials (2h) given by D. Nilsson
      Mon 12-14, Wed 14-16, E 2.4, Seminar room 4
    - Stochastik I (9 CP)
      Lectures (4h) with tutorials (2h) given by H. ZÃ¤hle
      Tue 8-10, Thu 10-12, TBA
    - Continuous Optimization (9 CP)
      Lectures (4h) with tutorials (2h) given by T. Schuster
      Tue 14-16, Thu 14-16, E 2.4, Seminar room 6
    - Convex Analysis (9 CP)
      Lectures (4h) with tutorials (2h) given by P. Swoboda
      Wed 8-10, Fri 8-10, E 1.4, Seminar room 0.24
    - Numerical Methods for Partial Differential Equations (9 CP)
      Lectures (4h) with tutorials (2h) given by S. Rjasanow
      Tue 10-12, Thu 10-12, E 2.5, Zeichensaal
    - Nonlinear Inverse Problems (3 CP)
      Lectures (2h) given by T. Schuster
      Thu 8-10, E 2.4, Seminar room 6
    - Iterative Methods (6 CP)
      Lectures (2h) with tutorials (2h) given by R. Schulz
      Mon 14-16, E 2.4, Seminar room 6
  - Classes in Computer Science:
    - Optimization for Machine Learning (6 CP)
      Lectures (2h) with tutorials (2h) given by S. Stich
      Mon 14-16, E 9.1, Lecture Hall
    - Optimization (9 CP)
      Lectures (4h) with tutorials (2h) given by A. Karrenbauer
      Wed 14-16, Thu 14-16, E 1.4, Seminar room 0.24
    - Embedded Systems (9 CP)
      Lectures (4h) with tutorials (2h) given by M. Maggio
      Tue 14-16, Thu 10-12, E 1.3, Lecture Hall 2
    - Competitive Programming (6 CP)
      Lectures (2h) with assignments given by M. BlÃ¤ser, K. Bringmann, M. Bromberger, and C. Weidenbach
      Thu 16-18, E 1.3, Lecture Hall 2
    - Programmierung 2 (9 CP)
      (only if you do not hold a Bachelor's degree in computer science)

Lectures (4h) with tutorials (2h) given by S. Hack
Tue 14-16, Fri 8-10, E 2.2, Lecture Hall 0.01

- Systemarchitektur (9 CP)
  (only if you do not hold a Bachelor's degree in computer science)
  Lectures (4h) with tutorials (2h) given by J. Reineke
  Wed 8-10, Fri 12-14, Online

- Softwarepraktikum (9 CP)
  (only if you do not hold a Bachelor's degree in computer science)
  Block course given by S. Apel
  TBA

- Classes in Mechatronics:
  - Multisensorsignalverarbeitung (4 CP)
    Lectures (2h) with assignments given by A. SchÃ¼tze
    Mon 10-12, A 5.1, Lecture Hall 2 (-1.22)

- Classes in Physics:
  - Elementare EinfÃ¼rung in die Physik II (4 CP)
    Lectures (2h) with tutorials (1h) given F. MÃ¼ller
    Wed 10-12, C 6.4, Lecture Hall 0.10

  - Physik fÃ¼r Ingenieure II (4 CP)
    Lectures (2h) with tutorials (1h) given by R. Seemann
    Mon 12-14, C 6.4, Lecture Hall 0.10

- **Additional Classes:**

(From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)

- Work as a tutor (4 CP)
- German as a Foreign Language for CS Students (6 CP)
  Lectures (4h) offered by the Max Planck Institute for Computer Science.
- English as a Foreign Language for CS Students (6 CP)
  Lectures (4h) offered by the Max Planck Institute for Computer Science.
- The International Office of Saarland University offers German language courses .
- Classes on other foreign languages are offered by the Language Center .
- Any of the classes of the first three categories.
- Classes in humanities (cognitive science, etc.) after approval in advance .

A detailed description of the contents of these classes can be found in our Handbook of Module Descriptions .

The campus map may help you to localise the individual buildings.

If you spot some errors or have proposals for adding additional classes to this list, please contact Joachim

Weickert .

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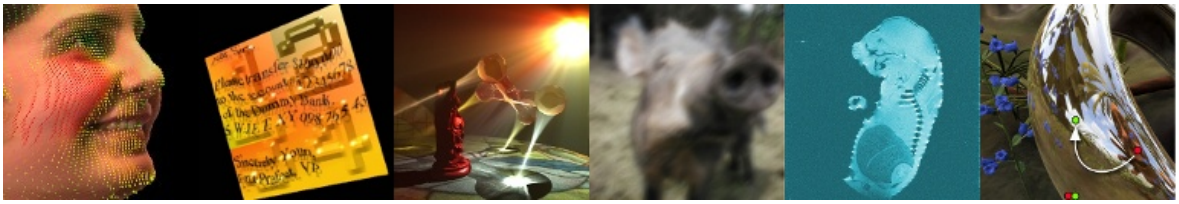

- **Information Meeting on Visual Computing**
  Monday, October 24, 2022 at 14:15 via Zoom:
  https://cs-uni-saarland-de.zoom.us/j/97403002160?pwd=Tk4rOG5PeUg2N2NNZkpXRTcvMU56dz09
  (If you cannot run it from your browser, try Chromium.)
  All Visual Computing students and other interested people are welcome.

Preliminary List of Classes Offered in the Winter Semester 2022/2023

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters.

- **Classes from the Core Areas of Visual Computing:**
  (In the 2020 regulations, you need 39 graded CP from this category. In the 2006 regulations, you need 45 CP with at least 27 CP graded.)
  - **Classes on Image Acquisition (and Geometric Foundations in the old study regulations):**
    (You need at least 3 graded CP from this subcategory in the 2020 regulations and at least 4 graded CP in the 2006 regulations.)
    - Image Acquisition Methods (6 CP)
      Lectures (2h) with tutorials (2h) given by P. Peter
      Thu 10-12, Online
    - Ultrasound Imaging
      (3 CP for students under the 2020 regulations and 4 CP for students under the 2006 regulations)
      Lectures (2h) given by M. Fournelle
      Mon 16-18, E 2.6, Room E.12
    - Physikalische Akustik 2
      (3 CP for students under the 2020 regulations and 4 CP for students under the 2006 regulations)
      Lectures (2h) given by M. Spies and U. Rabe
      Thu 8-10, Online
  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this subcategory.)
    - Differential Equations in Image Processing and Computer Vision (9 CP)
      Lectures (4h) with tutorials (2h) given by J. Weickert
      Wed 10-12, Fri 12-14, Online
    - Advanced Image Analysis (6 CP)
      Lectures (2h) with tutorials (2h) given by P. Peter
      Tue 16-18, Online
  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this subcategory.)

    - Computer Graphics (9 CP)
      Lectures (4h) with tutorials (2h) given by P. Slusallek
      Mon 10-12, Thu 8-10, E 1.3, HS 001 + Online

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (You need 9 graded CP from this category.)
    - Digital Transmission & Signal Processing (9 CP)
      Lectures (4h) with tutorials (2h) given by T. Herfet
      Tue 12-14, Wed 8-10, E 1.3, HS 001 and Online

    - Multimedia Transport (Future Media Internet) (9 CP)
      Lectures (4h) with tutorials (2h) given by T. Herfet
      Tue 10-12, Wed 12-14, E 1.3, HS 001 and Online

    - Human Computer Interaction (9 CP)
      Lectures (4h) with tutorials (2h) given by M. Schmitz
      Mon 12-14, Wed 14-16, E 1.3, HS 002

    - Neural Networks: Theory and Implementation (9 CP)
      Lectures (2h) with tutorials (2h) and project (2h) given by D. Klakow
      Tue 14-16, E 2.5, HS 001

    - Elements of Machine Learning (6 CP)
      Lectures (2h) with tutorials (2h) given by J. Vreeken and A. Bojchevski
      Thu 16-18, E 2.2, HS 0.01

    - Reinforcement Learning (7 CP)
      Tutorials (2h) + Project given by A. Singla, G. Radanovic, G. Tzannetos, and V. Padurean
      Tue 10-12, Online

    - AI Planning (6 CP)
      Lectures (2h) with tutorials (2h) given by J. Hoffmann, D. FiÅ¡er, and D. HÃ¶ller
      Tue 12-14, Wed 10-12, E 1.3, HS 003

    - Quantum Artificial Intelligence (3 CP)
      Lectures (2h) given by M. Klusch, A. Macaluso, and P. Slusallek
      Tue 16-18, E 1.3, HS 003

    - Machine Learning for Inverse Problems (9 CP)
      Lectures (4h) with tutorials (2h) given by T. Schuster
      Tue 12-14, E 2.4, HS IV, Thu 12-24, E 2.4, SR 6

    - Consider also specialised classes in computational linguistics.

- **Seminars from the Visual Computing Core Area (for all VC Students):**
  (You need one seminar in your study period.)
  Students can apply to seminars here:
  https://seminars.cs.uni-saarland.de/seminars2223
    - Inpainting in Image Analysis
      (7 CP for students under the 2020 regulations and 8 CP for students under the 2006 regulations)
      Seminar (2h) given by K. Schaefer and J. Weickert
      Thu 16-18, Online

- Ray Tracing and Global Illumination
  (7 CP for students under the 2020 regulations and 8 CP for students under the 2006 regulations)
  Seminar (2h) given by P. Grittmann, Q. Hua, and P. Slusallek
  TBD

- 3D Object Representation and Reconstruction with Machine Learning
  (7 CP for students under the 2020 regulations and 8 CP for students under the 2006 regulations)
  Seminar (2h) given by E. Ilg
  TBD

- **Seminars from Image Related Fields (only for VC Students in the 2020 Regulations):**
  (You need one seminar in your study period.)
  Students can apply to seminars here:
  https://seminars.cs.uni-saarland.de/seminars2223
  - Deep Generative Diffusion Models (7 CP)
    Block Seminar given by G. Gro&szligmann and V. Wolf
    March 6 and 7, 2023

  - AI for HCI (7 CP)
    Seminar (2h) given by A. M. Feit
    Thu 14-16, Location TBD

  - Machine Learning for Natural Language Processing and beyond (7 CP)
    Block Seminar given by D. Klakow
    TBD

  - Deep Reinforcement Learning (7 CP)
    Seminar (2h) given by T. P. Gros, J. GroÃŸ, and V. Wolf
    Wed 10-12, Location TBD

  - HyLEAR: Hybrid Learning and Reasoning (7 CP)
    Seminar (2h) given by M. Klusch, A. Nonnengart, C. M&uumllller, A. Meyer-Vitali
    Wed 10-12, D 3.2, Room "Leibniz"

  - Interactive Robotics (7 CP)
    Seminar (2h) given by J. Steimlea and M. Muehlhaus
    TBD

  - Learning from Limited Data in NLP (7 CP)
    Seminar (2h) given M. Mosbach and D. Zhu
    Mon 14-16, B 3.1, SR 1.15

  - Machine Learning meets Communication Networks (7 CP)
    Seminar (2h) given T. Herfet
    TBD

  - Pruning Deep Neural Networks for Lottery Tickets (7 CP)
    Seminar (2h) given R. Burkholz
    TBD

  - Speech-based Adaptation of Personalized User Interfaces (7 CP)
    Seminar (2h) given M. Feld, A. Gomaa, and J. Wolter

Tue 10-12, online

- Topics in Optimization for Machine Learning (7 CP)
  Seminar (2h) given S. Stich
  Mon 16-18, Location TBD

- Topics in Out-of-Distribution (OOD) Generalization (7 CP)
  Seminar (2h) given K. Muandet
  TBD

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed.
  Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:
    - Interpolation and Approximation for Visual Computing (6 CP)
      Lectures (3h) with tutorials (1h) given by V. Chizhov
      Mon 14-16, Thu 14-16, E 1.3, HS 001

    - Stochastics II (9 CP)
      Lectures (4h) with tutorials (2h) given by H. Z&aumlhle
      Tue 10-12, Thu 10-12, E 2.4, SR 6

    - Functional Analysis I (9 CP)
      Lectures (4h) with tutorials (2h) given by R. Speicher
      Mon 10-12, Wed 10-12, E 2.4, HS IV

    - EinfÃ¼hrung in die Variationsrechnung (5 CP)
      Lectures (2h) with tutorials (1h) given by M. Bildhauer
      Mon 14-16, E 2.4, SR 10

    - MinimalflÃ¤chen (5 CP)
      Lectures (2h) with tutorials (1h) given by M. Fuchs
      Fri 10-12, E 2.4, SR 10

    - EinfÃ¼hrung in die Numerik (9 CP)
      (only if you do not hold a Bachelor's degree in mathematics)
      Lectures (4h) with tutorials (2h) given by S. Rjasanow
      Tue 8-10, Thu 14-16, E 2.5, HS 0.01

    - Focus Semester on Quantum Information (5/9 CP)

  - Classes in Computer Science:
    - Algorithms and Data Structures (9 CP)
      Lectures (4h) with tutorials (2h) given by R. Seidel
      Mon 16-18, Wed 16-18, E 1.3, HS 002

    - Software Engineering (9 CP)
      Lectures (4h) with tutorials (2h) given by S. Apel
      Mon 8-10, Tue 12-14, E 2.2, HS 001

    - Approximation Algorithms (6CP)
      Lectures (2h) with tutorials (2h) given by J. Spoerhase

Thu 14-16, E 1.4, Room 024

- Randomized Algorithms and Probabilistic Analysis of Algorithms (5 CP)
  Lectures (2h) with tutorials (2h) given by P. Wellnitz
  Wed 14-16, E 1.4, Room 023

- Generic and Generative Software Design (6 CP)
  Lectures (4h) given by S. Apel and F. Sattler
  Mon 12-14, Wed 12-14, E 1.3, HS 003 and Online

- Programming 1 (9 CP)
  (only if you do not hold a Bachelor's degree in computer science)
  Lectures (4h) with tutorials (2h) given by H. Hermanns
  Tue 14-16, Thu 10-12, E 2.2, HS 0.01

- GrundzÃ¼ge von Algorithmen und Datenstrukturen (6 CP)
  (only if you do not hold a Bachelor's degree in computer science)
  Lectures (2h) with tutorials (2h) given by K. Bringmann
  Thu 12-14, E 2.2, HS 0.01

- Classes in Mechatronics:
  - Grundlagen der Signalverarbeitung (5 CP)
    Lectures (2h) with tutorials (1h) given by D. Klakow
    Thu 14-16, A 5.1, HS 1.03

- Classes in Physics:
  - Elementare EinfÃ¼hrung in die Physik I (5 CP)
    Lectures (2h) with tutorials (2h) given by F. MÃ¼ller
    Wed 10-12, C 6.4, HS 0.10

  - Introduction to Quantum Information Processing (5 CP)
    Lectures (2h) with tutorials (2h) given by F. Wilhelm-Mauch
    Mon 12-14, Fri 12-14, E 2.6, E04

- **Freely Selectable Modules:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)

  - Work as a tutor (4 CP)

  - German as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science.

  - English as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science.

  - The International Office of Saarland University offers a number of German language courses .

  - Classes on other foreign languages are offered by the Language Center .

  - Any of the classes of the first three categories.

  - Classes in humanities (cognitive science, etc.) after approval in advance .

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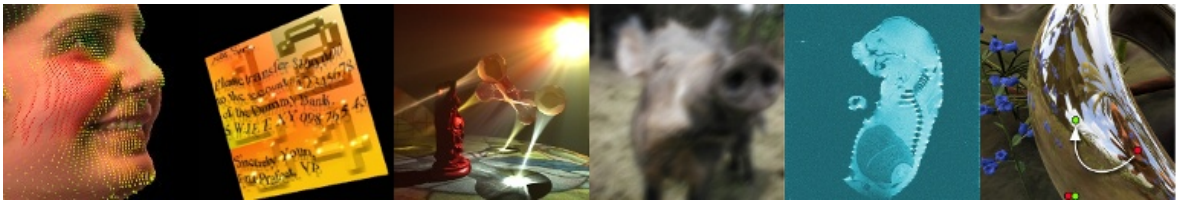

- **Information Meeting on Visual Computing**
  Tuesday, April 12, 2023 at 14:15 via Zoom:
  https://cs-uni-saarland-de.zoom.us/j/97403002160?pwd=Tk4rOG5PeUg2N2NNZkpXRTcvMU56dz09
  (If you cannot run it from your browser, try Chromium.)
  All Visual Computing students and other interested people are welcome.

Preliminary List of Classes Offered in the Summer Semester 2023

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters. If not stated otherwise, they refer to the current 2020 study regulations.

- **Classes from the Core Areas of Visual Computing:**
  (In the 2020 regulations, you need 39 graded CP from this category.)
  - **Classes on Image Acquisition (and Geometric Foundations in the old study regulations):**
    (You need at least 3 graded CP from this subcategory in the 2020 regulations and at least 4 graded CP in the 2006 regulations.)
    - Physikalische Akustik I
      (3 CP for students under the 2020 regulations and 4 CP for students under the 2006 regulations)
      Lectures (2h) given by U. Rabe and M. Spies
      Thu 8-10, E 3.1, Seminar Room

  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this subcategory.)
    - Image Processing and Computer Vision (9 CP)
      Lectures (4h) with tutorials (2h) given by P. Peter
      Tue 10-12, Fri 10-12, E 2.2, Lecture Hall 1 and Online

    - Image Compression (9 CP)
      Lectures (4h) with tutorials (2h) given by P. Peter
      Mon 12-14, Wed 12-14, Online

    - High-Level Computer Vision (6 CP)
      Lectures (2h) with tutorials (2h) given by B. Schiele
      Wed 10-12, E 1.4, Seminar Room 0.24

  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this subcategory.)
    - Realistic Image Synthesis (9 CP)
      Lectures (4h) with tutorials (2h) given by P. Slusallek, K. Myszkowski, and G. Singh
      Mon 10-12, Thu 8-10, E 1.3, Lecture Hall 1

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (You need 9 graded CP from this category.)

- Machine Learning (9 CP)
  Lectures (4h) with tutorials (2h) given by I. Valera
  Mon 14-16, E 2.5, Lecture Hall 1 and Thu 12-14, E 2.2, Lecture Hall 1

- Topics in Algorithmic Data Analysis (6 CP)
  Lectures (2h) with assignments given by J. Vreeken
  Thu 10-12, E 9.1, Room 0.005

- Interactive Systems (6 CP)
  Lectures (4h) with tutorials (2h) given by A. KrÃ¼ger
  Thu 14-16, E 1.3, Lecture Hall 2

- Data Science (6 CP)
  Lectures (2h) with projects given by W. MaaÃŸ
  Fri 14-16, B 4.1, Seminar Room 0.07

- Statistical Natural Language Processing (6 CP)
  Classroom lectures (2h) with tutorials (2h) given by D. Klakow
  Wed 14-16, E 1.3 Lecture Hall 1

- Consider also specialised classes in computational linguistics.

- **Seminars from the Visual Computing Core Area (for all VC Students):**
  (You need one seminar in your study period.)
  Students can apply to seminars here:
  https://seminars.cs.uni-saarland.de/sose23seminars
  - Probabilistic Diffusion: Theory and Applications
    (7 CP for students under the 2020 regulations and 8 CP for students under the 2006 regulations)
    Seminar (2h) given by K. Schrader, K. Schaefer and J. Weickert
    Thu 14-16, E 1.7, Room 4.10

  - Computer Vision and Machine Learning for Computer Graphics
    (7 CP for students under the 2020 regulations and 8 CP for students under the 2006 regulations)
    Seminar (2h) given by C. Theobalt, V. Golyanik, and M. Elgharib
    Thu 14-16, E 1.5, Room 029

  - Photorealistic 3D Reconstruction with Deep Learning
    (7 CP for students under the 2020 regulations and 8 CP for students under the 2006 regulations)
    Seminar (2h) given by E. Ilg
    Thu 14-16, TBD

- **Seminars from Image Related Fields (only for VC Students in the 2020 Regulations):**
  (You need one seminar in your study period.)
  Students can apply to seminars here:
  https://seminars.cs.uni-saarland.de/sose23seminars
  - Accountable AI through the Lens of Causality (7 CP)
    Seminar (2h) given by G. Radanovic, S. Triantafyllou
    Thu 10-12, TBD

  - Machine Learning for Natural Language Processing (7 CP)
    Block Seminar (2h) given by D. Klakow

Fall 2023

- Data-driven Understanding of the Disinformation Epidemic (DUDE) (7 CP)
  Seminar (2h) given by Y. Zhang
  Thu 14-16, TBD

- Do we really need overparameterization in deep learning? (7 CP)
  Seminar given by R. Burkholz
  TBD

- Foundations of Machine Learning (7 CP)
  Seminar given by Y. Jiang, K. Mehlhorn, A. Polak, R. Sharma, H. Simon and S. Srinivas
  Wed 16-18, E 1.4, Room 024

- Getting Hands-On with Wearable Robotics for Augmenting Human Capabilities (7 CP)
  Seminar given by M. MÃ¼hlhaus, A. Saberpour, A. Otaran, J. Steimle
  TBD

- Hybrid Learning and Reasoning (7 CP)
  Seminar (2h) given by M. Klusch, A. Meyer-Vitali and A. Nonnengart
  Wed 10-12, D 3.2, Room "Turing 1" or Online

- Machine Learning for Language and Vision (7 CP)
  Seminar (2h) given by X. Hong, R. Feng and V. Demberg
  Tue 12-14, TBD

- Opportunities and Risks of Large Language Models and Foundation Models (7 CP)
  Seminar (2h) given by M. Fritz
  TBD

- Simulating Reality for Boosting AI: Application of 3D Synthetic Data in Object Detection (7 CP)
  Seminar (2h) given A. KrÃ¼ger and M. Moniri
  TBD

- SupRTwin: Sensing, Unterstanding, and Provisioning of Real-Time Digital Twins (7 CP)
  Seminar (2h) given T. Schwartz, S. Knoch, A. Luxenburger and A. KrÃ¼ger
  TBD, Power4Production Hall at ZeMA (Eschberger Weg 46, 66121 SaarbrÃƒÂ¼cken) and Online

- Through the eyes of the user: Seminar on eye tracking for intelligent interfaces (7 CP)
  Seminar (2h) given A. M. Feit
  TBD

- What do language models really understand? (7 CP)
  Seminar (2h) given S. Schuster and V. Demberg
  TBD

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed.
  Please make sure that the lectures you attend do extend your knowledge,
  and do not hesitate to consult us in case of doubts.
  - Classes in Mathematics:

- Numerical Algorithms for Visual Computing (6 CP)
  Classroom lectures (2h) with tutorials (2h) given by V. Chizhov
  Tue 14-16, Fri 14-16, Online

- Continuous Optimisation (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by P. Ochs
  Tue 12-14, Thu 12-14, E1.3, Lecture Hall 3

- Convex Analysis and Optimization (9 CP)
  Classroom lectures (4h) with tutorials (2h) given by P. Ochs
  Tue 8-10, Thu 8-10, E 1.3, Lecture Hall 3

- High Dimensional Analysis: Random Matrices and Machine Learning (9 CP)
  Lectures (4h) with tutorials (2h) given by R. Speicher
  Mon 10-12, Wed 10-12, E 2.4, Lecture Hall 4

- Mathematical Statistics (9 CP)
  Lectures (4h) with tutorials (2h) given by H. ZÃ¤hle
  Mon 8-10, Wed 8-10, E 2.4, Seminar Room 6

- Stochastic Modeling with Markov Chains (6 CP)
  Lectures (2h) with tutorials (2h) given by T. Nguyen
  Wed 14-16, E 2.4, Lecture Hall 4

- Dynamical Systems (9 CP)
  Lectures (4h) with tutorials (2h) given by D. Hill
  Wed 12-14, Fri 12-14, E 2.4, Seminar Room 10

- Theorie und Numerik gewÃ¶hnlicher Differentialgleichungen (9 CP)
  Lectures (4h) with tutorials (2h) given by S. Rjasanow
  Tue 10-12, Thu 10-12, E 1.1

- Elementare Differentialgeometrie (9 CP)
  Lectures (4h) with tutorials (2h) given by M. Fuchs
  Wed 12-14, Fri 10-12, E 2.4, Seminar Room 6

- Elementarkurs partielle Differentialgleichungen (5 CP)
  Lectures (2h) with tutorials (2h) given by M. Bildhauer
  Tue 8-10, E 2.4, Lecture Hall 4

- Stochastik I (9 CP)
  (only if you do not hold a Bachelor's degree in Mathematics)
  Lectures (4h) with tutorials (2h) given by C. Bender
  Tue 12-14, Thu 10-12, E 2.4, Seminar Room 6

- Classes in Computer Science:
  - Optimization for Machine Learning (6 CP)
    Lectures (2h) with tutorials (2h) given by S. Stich
    Mon 14-16, E 9.1, Room 0.05 and Online

  - Embedded Systems (9 CP)
    Lectures (4h) with tutorials (2h) given by M. Maggio
    Tue 16-18, Thu 10-12, E 1.3, Lecture Hall 2

- Distributed Systems (9 CP)
  Lectures (4h) with tutorials (2h) given by D. Garg
  Mon 12-14, Wed 10-12, E 1.5, Room 0.29

- Distributed Graph Algorithms (6 CP)
  Lectures (2h) with tutorials (2h) given by S. Brandt
  Mon 10-12, E 9.1, Room 0.05

- Parametrized Algorithms (6 CP)
  Lectures (2h) with tutorials (2h) given by D. Marx
  Tue 10-12, E 1.4, Room 023

- Programming 2 (9 CP)
  (only if you do not hold a Bachelor's degree in computer science)
  Lectures (4h) with tutorials (2h) given by J. Hoffmann
  Tue 14-16, Fri 8-10, E 2.2, Lecture Hall 1

- System Architecture (9 CP)
  (only if you do not hold a Bachelor's degree in computer science)
  Lectures (4h) with tutorials (2h) given by J. Reineke
  Wed 8-10, Fri 12-14, E 2.2, Lecture Hall 1

- Software Engineering Lab (9 CP)
  (only if you do not hold a Bachelor's degree in computer science)
  Block course given by S. Apel
  (September 4 - October 20)

- Classes in Systems Engineering:
  - Digital Signal Processing (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by D. Klakow
    Mon 10-12, A 5.1, Lecture Hall -1.03

  - Multisensorsignalverarbeitung (4 CP)
    Classroom lectures (2h) with assignments given by A. SchÃ¼tze
    Mon 10-12, A 5.1, Lecture Hall -1.22 and Online

- Classes in Physics:
  - Elementare EinfÃ¼hrung in die Physik II (4 CP)
    Lectures (2h) with tutorials (1h) given F. MÃ¼ller
    Wed 10-12, C 6.4, Lecture Hall 0.10

  - Physik fÃ¼r Ingenieure II (4 CP)
    Lectures (2h) with tutorials (1h) given by R. Seemann
    Mon 12-14, C 6.4, Lecture Hall 0.10 and Online

- **Freely Selectable Modules:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)

  - Work as a tutor (4 CP)

  - German as a Foreign Language for CS Students (6 CP)
    Lectures (4h) offered by the Max Planck Institute for Computer Science.

- English as a Foreign Language for CS Students (6 CP)
  Lectures (4h) offered by the Max Planck Institute for Computer Science.
- The International Office of Saarland University offers a number of German language courses .
- Classes on other foreign languages are offered by the Language Center .
- Research Immersion Lab (6 CP, only in the 2020 regulations)
- Any of the classes of the first three categories.
- Classes in humanities (cognitive science, etc.) after approval in advance .
- internship (6 CP, only in the 2020 regulations) after approval in advance .

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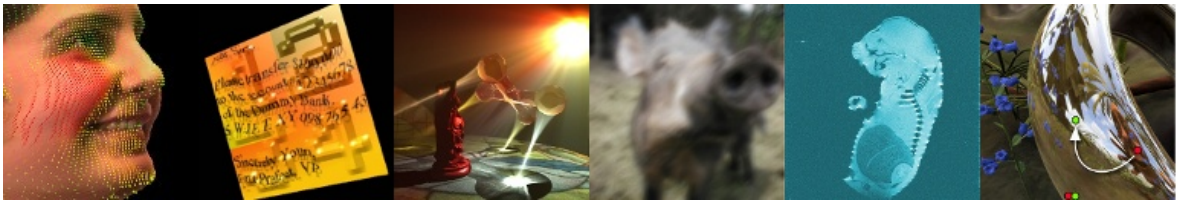


Preliminary List of Classes Offered in the Winter Semester 2023/2024

The number of required credit points (CP) at the beginning of each category refers to the entire study period of four semesters in the 2020 study regulations.

- **Classes from the Core Areas of Visual Computing:**
  (You need 39 graded CP from this category.)
  - **Classes on Image Acquisition (and Geometric Foundations in the old study regulations):**
    (You need at least 3 graded CP from this subcategory.)
    - Image Acquisition Methods (6 CP)
      Lectures (2h) with tutorials (2h) given by P. Peter
      Tue 16-18, E 1.3, HS001

    - Ultrasound Imaging (3 CP)
      Lectures (2h) given by M. Fournelle
      Mon 16-18, E 2.6, Room E.12

    - Physikalische Akustik 2 (3 CP)
      Lectures (2h) given by M. Spies and U. Rabe
      Thu 8-10, E 3.1, Seminar Room

  - **Classes on Image Analysis:**
    (You need at least 9 graded CP from this subcategory.)
    - Differential Equations in Image Processing and Computer Vision (9 CP)
      Lectures (4h) with tutorials (2h) given by P. Peter
      Tue 8-10, Fri 14-16, E 1.3, HS 001 + Online

    - Mathematical Morphology in Image Analysis (6 CP)
      Lectures (2h) with tutorials (2h) given by K. Schaefer and J. Weickert
      Thu 14-16, E 1.3, HS 003

    - 3D Computer Vision (9 CP)
      Lectures (2h) with tutorials (2h) and project given by E. Ilg
      Mon 8-10, Fri 8-10, E 1.3, HS 003

  - **Classes on Image Synthesis:**
    (You need at least 9 graded CP from this subcategory.)
    - Computer Graphics (9 CP)
      Lectures (4h) with tutorials (2h) given by P. Slusallek
      Mon 10-12, Thu 8-10, E 1.3, HS 001

    - Advanced Topics in Neural Rendering and Reconstruction (3 CP)
      Lectures (2h) given by C. Theobalt, M. Elgharib, V. Golyanik, T. Leimk&uumlhler and M. Habermann
      Wed 14-16, E 1.3, HS 003

- **Classes in Image Related Areas in Computer Science and Other Disciplines:**
  (You need 9 graded CP from this category.)
  - Artificial Intelligence (9 CP)
    Lectures (4h) with tutorials (2h) given by J. Hoffmann
    Tue 10-12, Fri 14-16, E 2.2, HS 001

  - Audio/Visual Communication and Networks (Telecommunications II) (9 CP)
    Lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 10-12, Wed 12-14, E 1.3, HS 001 + Online

  - Digital Transmission & Signal Processing (9 CP)
    Lectures (4h) with tutorials (2h) given by T. Herfet
    Tue 12-14, Wed 8-10, E 1.3, HS 001 + Online

  - Elements of Machine Learning (6 CP)
    Lectures (2h) with tutorials (2h) given by J. Vreeken and K. Muandet
    Thu 16-18, E 2.2, HS 0.01

  - Elements of Data Science and Artificial Intelligence (9 CP)
    Classroom lectures (4h) with tutorials (2h) given by V. Demberg, J. Hoffmann, T. KlÃ¶szligner, T. Koebe, B. Schiele, and I. Weber
    Mon 10-12, Thu 12-14, E 1.3, HS002

  - Games in Machine Learning (6 CP)
    Lectures (2h) given by T. Chavdarova and S. Stich
    Tue 14-16, E 9.1, Room 0.05

  - Human Computer Interaction (9 CP)
    Lectures (4h) with tutorials (2h) given by M. Schmitz
    Tue 14-16, Wed 14-16, E 1.3, HS 002

  - Neural Networks: Theory and Implementation (6 CP)
    Lectures (2h) with tutorials (2h) given by D. Klakow
    Tue 14-16, E 2.5, HS 001

  - Reinforcement Learning (7 CP)
    Lectures (2h) with tutorials (2h) given by V. Wolf
    Mon 14-16, E 1.3, HS 002

  - Quantum Artificial Intelligence (3 CP)
    Lectures (2h) given by M. Klusch and A. Macaluso
    Fri 10-12, E 1.3, HS 002

  - Consider also specialised classes in computational linguistics.

- **Seminars from the Visual Computing Core Area or Image Related Fields:**
  (You need one seminar in your study period.)
  Students can apply to seminars here:
  https://seminars.cs.uni-saarland.de/seminars2324
  - Interpolation and Approximation Methods for Visual Computing Algorithms (7 CP)
    Seminar (2h) given by M. Ertel and J. Weickert
    Thu 16-18, Online

- Monte Carlo Ray Tracing (7 CP)
  Seminar (2h) given by P. Slusallek, Q. Hua, and P. Grittmann
  Tue 17-18

- Advanced Topics in Diffusion Modeling - From Theory to Implementation (7 CP)
  Seminar (2h) given by G. Gro&szligmann and V. Wolf
  Fri 14-16, E 1.1, Room 1.06

- Advances in AI for Autonomous Driving (7 CP)
  Seminar (2h) given by M. Klusch, A. Nonnengart, A. Meyer-Vitali and C. M&uumlller
  Tue 16-18, D 3.2, Room "Turing 2"

- Machine Learning for Natural Language Processing (7 CP)
  Block Seminar given by D. Klakow
  Spring 2024

- Bridging Language in Machines with Language in the Brain (7 CP)
  Seminar (2h) given by M. Toneva

- Engineering of Interactive Systems with Generative AI (7 CP)
  Seminar (2h) given by M. Muehlhaus, A. Saberpour, and J. Steimle

- Eye tracking: experimental investigations in language comprehension and machine learning approaches to data analysis (7 CP)
  Seminar (2h) given by I. Å krjanec and M. Ryzhova
  Fri 12-14

- Eye tracking for intelligent systems - a pratical research seminar (7 CP)
  Block Seminar given A. M. Feit, M. Feld, M. Barz, and A. Gomaa
  March 2024

- Individual differences in language processing (7 CP)
  Seminar (2h) given J. Loy and A. Mayn
  TBD

- Pruning Deep Neural Networks for Lottery Tickets (7 CP)
  Seminar (2h) given R. Burkholz
  TBD

- Quantum Computer Vision and Machine Learning (7 CP)
  Seminar (2h) given V. Golyanik
  Thu 14-16, E 1.5, Room 630

- Reinforcement Learning with Large Language Models (7 CP)
  Seminar (2h) given A. Singla and G. Radanovic
  TBD

- Systems for Large (Language) Models (7 CP)
  Seminar (2h) given K. Gummadi, L, Bindschaedler, V, Nanda, and T. Speicher
  TBD

- **Supplementary Classes (to Fill Your Personal Gaps of Knowledge):**
  (From this category you need 18 CP with at least 9 graded CP.)
  Depending on your background, not all selections may be allowed.

Please make sure that the lectures you attend do extend your knowledge, and do not hesitate to consult us in case of doubts.

- Classes in Mathematics:
  - Interpolation and Approximation for Visual Computing (6 CP)
    Lectures (3h) with tutorials (1h) given by V. Chizhov
    Mon 14-16, Thu 14-16, E 1.3, HS 001
  - Non-smooth Analysis and Optimization in Data Science (9 CP)
    Lectures (4h) with tutorials (2h) given by P. Ochs
    Tue 10-12, Thu 10-12, E 1.3, HS 003
  - Inverse Problems (9 CP)
    Lectures (4h) with tutorials (2h) given by T. Schuster
    Wed 14-16, Thu 8-10, E 2.4, HS IV
  - Stochastics II (9 CP)
    Lectures (4h) with tutorials (2h) given by C. Bender and T. Nguyen
    Tue 8-10, Thu 12-14, E 2.4, HS IV
  - Functional Analysis I (9 CP)
    Lectures (4h) with tutorials (2h) given by A. Dayan
    Tue 14-16, Thu 14-16, E 2.4, HS IV
  - Mathematical Foundations of Quantum Information (9 CP)
    Lectures (4h) with tutorials (2h) given by M. Weber
    Mon 14-16, Thu 10-12, E 2.5, HS II
  - Modellieren mit partiellen Differentialgleichungen (9 CP)
    Lectures (4h) with tutorials (2h) given by S. Rjasanow
    Tue 12-14, Thu 10-12, E 2.4, HS IV
  - EinfÃ¼hrung in die Numerik (9 CP)
    (only if you do not hold a Bachelor's degree in mathematics)
    Lectures (4h) with tutorials (2h) given by T. Schuster
    Tue 8-10, Thu 12-14, E 2.5, HS I
- Classes in Computer Science:
  - Algorithms and Data Structures (9 CP)
    Block lecture given by K. Bringmann and P. Wellnitz
    March 2024, E 1.3, HS 003
  - Hands-On Dependability (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by A. Schmidt
    Tue 14-16, E 1.3 HS003
  - Software Engineering (9 CP)
    Lectures (4h) with tutorials (2h) given by S. Apel
    Mon 8-10, Tue 12-14, Online
  - Space Informatics (6 CP)
    Classroom lectures (2h) with tutorials (2h) given by J. Fraire, H. Hermanns, and A. Schmidt
    Thu 12-14, E 1.3 HS001

        - Sublinear Algorithms (5CP)
          Lectures (2h) with tutorials (2h) given by K. Bringmann and N. Varma
          Tue 16-18, E 1.4, Room 024

        - Programming 1 (9 CP)
          (only if you do not hold a Bachelor's degree in computer science)
          Lectures (4h) with tutorials (2h) given by S. Hack
          Tue 14-16, Thu 10-12, E 2.2, HS 001

        - Fundamentals of Algorithms und Data Structures (6 CP)
          (only if you do not hold a Bachelor's degree in computer science)
          Lectures (2h) with tutorials (2h) given by R. Seidel
          Thu 12-14, E 2.2, HS 001

    - Classes in Mechatronics:
        - Grundlagen der Signalverarbeitung (5 CP)
          Lectures (2h) with tutorials (1h) given by D. Klakow
          Thu 14-16, A 5.1, HS 1.03

    - Classes in Physics:
        - Elementare EinfÃ¼hrung in die Physik I (5 CP)
          Lectures (2h) with tutorials (2h) given by F. MÃ¼ller
          Wed 10-12, C 6.4, HS 0.10

        - EinfÃ¼hrung in die Quanteninformationsverarbeitung (5 CP)
          Lectures (2h) with tutorials (2h) given by F. Wilhelm-Mauch
          Mon 12-14, Fri 12-14, E 2.6, E04

- **Freely Selectable Modules:**
  (From this category you need 10 CP. Work as a tutor is accepted for at most 4 CP, and language classes for at most 6 CP.)

    - Work as a tutor (4 CP)

    - German as a Foreign Language for CS Students (6 CP)
      Lectures (4h) offered by the Max Planck Institute for Computer Science.

    - English as a Foreign Language for CS Students (6 CP)
      Lectures (4h) offered by the Max Planck Institute for Computer Science.

    - The International Office of Saarland University offers a number of German language courses .

    - Classes on other foreign languages are offered by the Language Center .

    - Research Immersion Lab (6 CP, only in the 2020 regulations)

    - Any of the classes of the first three categories.

    - Classes in humanities (cognitive science, etc.) after approval in advance .
    - Internship (6 CP, only in the 2020 regulations) after approval in advance .

  A detailed description of the contents of these classes can be found in our Handbook of Module Descriptions .

The campus map may help you to localise the individual buildings.

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