Media Informatics Master

Welcome!

Prof. Dr. Antonio Krüger
Dr. Michael Schmitz
Dr. Pascal Lessel

krueger@dfki.de
m.schmitz@hbksaar.de
pascal.lessel@dfki.de
Introduction

Chairman of the examination board of Media Informatics (MI)

Prof. Dr. Antonio Krüger

Contact person for questions related to the “Hochschule der Bildenden Künste Saar“ (Academy of Fine Arts - HBKsaar)

Dr. Michael Schmitz

Contact person for the MI internship and other questions

Dr. Pascal Lessel
Agenda

- General Information
- Internship (2nd Semester)
- Thesis (4th Semester)
- HBKsaar Details
Agenda

- General Information
- Internship (2nd Semester)
- Thesis (4th Semester)
- HBKsaar Details
Relevant Locations

Saarland Informatics Campus

HBKsaar
Important Contacts

Examination office
mei@ps-mint.uni-saarland.de

Study coordination (e.g., Dr. Rahel Stoike-Sy or Barbara Schulz-Brünken)
studium@cs.uni-saarland.de

First contact when you have questions regarding study documents, study organization and progress, examination related general questions, academic and personal problems, etc.
Study Regulations ● Examination Regulations ● Course Handbook

If you have a question, there is a high chance that it is answered in these documents

EN: https://www.ps-mint.uni-saarland.de/en/programmes/mei

DE: https://www.ps-mint.uni-saarland.de/de/programmes/mei
We (sek-ak@dfki.de) provided you with an overview document with several useful links and pieces of information along with the invitation to this kickoff meeting.

If you missed it (e.g., you heard from this kickoff meeting only from another person), please write an email to pascal.lessel@dfki.de
Consult your study regulations and module descriptions for more details

Flexibility: You can shift courses to other semesters, and you can select courses that fit your interests
Course Overview UdS

Select a term

https://www.lsf.uni-saarland.de

Check the offered courses
**Example: Core Lectures – This semester:**

<table>
<thead>
<tr>
<th>Lect.-No.</th>
<th>Lecture</th>
<th>Type</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>146421</td>
<td>Semantics - Dreyer</td>
<td>Lecture / Exercise/problem-solving class</td>
<td></td>
</tr>
<tr>
<td>146425</td>
<td>Artificial Intelligence - Hoffmann</td>
<td>Lecture / Exercise/problem-solving class</td>
<td></td>
</tr>
<tr>
<td>146426</td>
<td>Automated Reasoning - Waldmann</td>
<td>Lecture / Exercise/problem-solving class</td>
<td></td>
</tr>
<tr>
<td>146429</td>
<td>Computer Graphics - Siusallek</td>
<td>Lecture / Exercise/problem-solving class</td>
<td></td>
</tr>
<tr>
<td>146432</td>
<td>Digital Transmission, Signal Processing - Herfet</td>
<td>Lecture / Exercise/problem-solving class</td>
<td></td>
</tr>
<tr>
<td>146433</td>
<td>Human Computer Interaction - Schmitz</td>
<td>Lecture / Exercise/problem-solving class</td>
<td></td>
</tr>
<tr>
<td>146434</td>
<td>Security - Bugiel, Holz</td>
<td>Lecture / Exercise/problem-solving class</td>
<td></td>
</tr>
<tr>
<td>146435</td>
<td>Software Engineering - Apel</td>
<td>Lecture / Exercise/problem-solving class</td>
<td></td>
</tr>
<tr>
<td>146768</td>
<td>Algorithms and Data Structures - Bringmann, Wellnitz</td>
<td>Block lecture course</td>
<td></td>
</tr>
<tr>
<td>147527</td>
<td>Verification - Finkbeiner</td>
<td>Lecture / Exercise/problem-solving class</td>
<td></td>
</tr>
</tbody>
</table>
Example: Core Lectures – Last semester:

<table>
<thead>
<tr>
<th>Lect.-No.</th>
<th>Lecture</th>
<th>Type</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>142952</td>
<td>Cryptography - Döttling, Loss</td>
<td>Lecture / Exercise/problem-solving class</td>
<td></td>
</tr>
<tr>
<td>142953</td>
<td>Introduction to Computational Logic - Smolka</td>
<td>Lecture / Exercise/problem-solving class</td>
<td></td>
</tr>
<tr>
<td>142954</td>
<td>Embedded Systems - Maggio</td>
<td>Lecture / Exercise/problem-solving class</td>
<td></td>
</tr>
<tr>
<td>143169</td>
<td>Data Networks - Feldmann</td>
<td>Lecture / Exercise/problem-solving class</td>
<td></td>
</tr>
<tr>
<td>143170</td>
<td>Machine Learning - Valera Martinez</td>
<td>Lecture / Exercise/problem-solving class</td>
<td></td>
</tr>
<tr>
<td>143171</td>
<td>Distributed Systems - Garg, Blindschaedler</td>
<td>Lecture / Exercise/problem-solving class</td>
<td></td>
</tr>
<tr>
<td>144034</td>
<td>Image Processing and Computer Vision - Peter, Mitarbeiter des Lehrstuhls</td>
<td>Lecture / Exercise/problem-solving class</td>
<td></td>
</tr>
</tbody>
</table>

A lot of options are offered every year! Often core lectures are repeated in the same rotation (i.e., in summer terms).
Attention: Advanced lectures and seminars are often only offered once.
How do I receive more information on a course? (i.e., lecture slots or how much ETCS points?)

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</table>
Internal seminar registration

*Constraint solving to assign seminar spots*

Management system for courses

*Many, but not all CS courses use this*

Seminar preference registration deadline: October 24h 2023, 23:59 CET.
Practical Phase

- Internship in an external company for (at least) 600 working hours in total
- Attend 3 internship talks & give a talk about your internship
Practical Phase

http://umtl.cs.uni-saarland.de/mediainformatics/practical-phase.html

http://umtl.cs.uni-saarland.de/faq
Practical Phase

It’s your responsibility to find an internship.

You do **not** need to do the internship in Saarland.

A possible internship needs to be approved by us beforehand.

The internship needs to cover topics from the domain of media informatics.

Some companies that already accepted students in the past:

- anynines GmbH (formerly Avarteq GmbH)
- AZURY
- Centigrade
- Create 3D
- Deutsche Hochschule für Prävention und Gesundheitsmanagement (DHfPG)
- Dialogika
- Didactic Innovations GmbH
- Ergosign
- Eyeled
- Fjutsche
- IMC
- KiM
- SAP (St. Ingbert)
- site point
Practical Phase

You need to attend other talks

https://umtl.cs.uni-saarland.de/research/talks.html

Seminar
To pass the seminar accompanying the practical phase, there are the following requirements:

1. Attending at least 3 other seminar talks
2. Giving a 30 minute presentation about the internship. This presentation should introduce the company, as well as the work you have done. The presentation is supposed to close with a short summary and what you liked about the internship and what not.

To choose a timeslot for your presentation, please contact the internship contact person with 5 suggestions of possible dates (including your available time on these days) and the following information:

- Title: [Add the title of the talk]
- Type of Talk: Internship-Talk
- Internship-Company: [Add the name of the company where you did your internship]
- Speaker: [Add your name]
- Time and date: [Add the time and date]
- Teams-Link: [Add the link]
- Abstract: [Provide a short abstract of the talk]

After the date is agreed upon, you will receive the Teams link and the talk will be added to the calendar (see below).

Digital meetings!
Agenda

- General Information
- Internship (2nd Semester)
- Thesis (4th Semester)
- HBKsaar Details
Two general options:

A) Writing your thesis **internally** at Saarland University.
   - This can be typically done at **all Computer Science chairs**. Therefore it is reasonable to start finding suitable chairs early and attending their courses.
   - Different requirements!
     Check them out before contacting the corresponding chair/responsible person.

B) Writing your thesis in an **external company**.
   - You also need to find a Professor of Computer Science at Saarland University who agrees to co-supervise.
Professors of the Computer Science Department

Prof. Dr. Sven Apel
Professor, Saarland University
Software Engineering and Programming Methodology
Saarland University
Saarland Informatics Campus
E 3.1, R. 211
66123 Saarbrücken
Germany
Phone: +49 681 302-5721
Assistant: +49 681 302-37210
E-Mail: 
Homepage:

Prof. Dr. h.c. Michael Backes
Scientific Director and Professor, CISPA Helmholtz Center for Information Security
Information Security and Cryptography
CISPA Helmholtz Center for Information Security
Saarland Informatics Campus
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66123 Saarbrücken
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Phone: +49 681 302-3219
Assistant: +49 681 302-3249
E-Mail: 
Homepage:

Prof. Dr. Laurent Bertholdi
Professor, Department of Computer Science
Mathematics and Computer Science
Department of Computer Science
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Assistant: +49 681 302-3400
E-Mail: 
Homepage:

Prof. Dr. Markus Bläser
Professor, Saarland University
Computational Complexity
Saarland University
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Germany
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Assistant: +49 681 302-37210
E-Mail: 
Homepage:

Prof. Dr. Karl Bringmann
Professor, Saarland University
Algorithms and Complexity
Saarland University
Saarland Informatics Campus
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Germany
Phone: +49 681 302-5721
Assistant: +49 681 302-37210
E-Mail: 
Homepage:

Prof. Dr. Vera Demberg
Professor, Saarland University
Computer Science and Computational Linguistics
Saarland University
Saarland Informatics Campus
E 3.1, R. 211
66123 Saarbrücken
Germany
Phone: +49 681 302-5721
Assistant: +49 681 302-37210
E-Mail: 
Homepage:

Link to their chair pages ➔ Presentation of research interests

https://saarland-informatics-campus.de/en/forschung-research/advisors/
Example: UMTL Chair
Example: UMTL Chair
Our Thesis Process

Example: UMTL Chair

Bachelor/Master Thesis

How can I pursue a thesis at UMTL?

If you are interested in writing a Bachelor’s or Master's thesis at our chair, please be aware of the following prerequisites and principles:

1. Optimally, you have successfully attended lectures and/or seminars given by our group (Bachelor or Master).

2. To find an advisor and apply for a topic, there are two options:
   a. You are looking for a topic: Have a look at our open thesis page. Here you can see what we currently offer - every entry illustrates how to apply for it. If you have experience in an area that we cover (please visit the individual web pages of our team members), but no corresponding open topics are available at the moment, you can proactively contact the corresponding member of UMTL. Add your current transcript of records (as well as former ones, if applicable), a motivational statement why the area is a good fit for you and a clear timeframe indicating when you plan to do your thesis (planned start + end date). Please note that there is no guarantee that we can supervise you.
   b. You already have a topic (your own idea or the topic is proposed by an external company): In order to learn more about our research interests, please visit the individual web pages of our team members. Please send Prof. Krüger an email with the names of the team members that match the topic of your intended thesis closest (if you cannot identify a match, we are likely the wrong chair for supervision).

Please note, if the thesis does not fit to our research agenda or the relevant members have no capacity left, we might not be able to supervise you on this topic (however other Computer Science chairs might be able to, see below). If the topic comes from an external company, please include the original thesis description in your initial contact and also state whether there are aspects the company needs us to consider (e.g., "Spervermerk"/NDAs etc.). If the topic is a fit and a member is interested, Prof. Krüger will initiate the contact.

3. The potential advisor will review your application:
   - You get a positive reply: Great news! You can now proceed with the topic and follow the steps stated in the section "After I have a topic and an advisor - what else do I need?" (if it is an external thesis, see also the common questions section)
   - You receive a negative reply: Sadly, the team member cannot accept your application. This could be because of different reasons, such as the lack of

Remember: Other chairs might have other requirements and other processes
## Open Thesis Topics

<table>
<thead>
<tr>
<th>Topic</th>
<th>Faculty Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perception of Audience Influence Options Beyond the Game: Understanding Context Factors</td>
<td>Dr. Pascal Lessel</td>
</tr>
<tr>
<td>Human-Robot Collaboration: User-Study regarding Optimal Work Dynamic and Interaction Modalities</td>
<td>Dr. Tim Schwartz</td>
</tr>
<tr>
<td>Human-in-the-Loop Reinforcement Learning using real-time feedback for industrial robots (Industry 4.0)</td>
<td>Amr Gomaa</td>
</tr>
<tr>
<td>Real-time multi-modal interaction for referencing objects from a moving source.</td>
<td>Amr Gomaa</td>
</tr>
<tr>
<td>Adaptive in-vehicle HMI based on driving behavior using state diagrams.</td>
<td>Amr Gomaa</td>
</tr>
</tbody>
</table>
Recommendations

CS-specific: October, 18 - 20

**Master StEP winter semester 2023/24**

Currently the Master Step is scheduled to take place from October 18 to 20 on Campus (not online). More information and a schedule will be available about two weeks before the event here.

The Master Step is aimed at new Master students who were not previously enrolled at Saarland University.

We want to tell you everything you need about your new university, its structure, the support institutions and amenities, how to get around in Saarbrücken and - if you just arrived from abroad - some quick start tips for Germany. We hope to address all of your study-related questions and help you get started as smoothly as possible.

If you currently have more questions just write us a mail or visit our Discord.

[https://cs.fs.uni-saarland.de/en/events/step](https://cs.fs.uni-saarland.de/en/events/step)

University-wide: October, 16 - 20

**Welcome Week**

Welcome Center offers several orientation events for new international students each semester.

The Welcome Week for winter semester 2023/24 will take place in the week of October 16 - 20, 2023. You will find information about the Welcome Week on these web pages (office hours, in due time the exact dates will be added as they are planned).


+ CS Semester Kick-Off (October, 23, 10am) (Günter-Hotz Lecture Hall)
Questions so far?
Agenda

- General Information
- Internship (2^{nd} Semester)
- Thesis (4^{th} Semester)
- HBKsaar Details
Note: What is shown was for illustrative purposes. Binding are always study program documents etc. and not these slides.
Introduction

to the **University of Fine Arts Saar**

for Master Students of Media Informatics

Michael Schmitz
University of Fine Arts Saar =
Hochschule der Bildenden Künste Saar (HBKsaar) (50% Arts, 50% Design)

- Main degree programs: *Arts, Communication Design, Product Design, Media Art & Design, Art Education*
- ~600 students, 60 employees
- Experimental Media Lab (xm:lab): Institute at HBKsaar
  - Hosts the collaboration with UdS

[www.xmlab.org](http://www.xmlab.org) → Teaching → Media Informatics FAQ
- **Language**: Check FAQ & contact the teacher if in doubt
- Catalogue of courses and projects is published online around the **20th of March/September**
- Different courses and projects every semester!
- Exception: A project related to games / playful interactive systems
- **CP transfer** to the University’s LSF through me at the end of a semester
MAD Electives
8 CP (ungraded)

- Typically: One course provides 4 CPs (one session a week, 2 hours long, plus homework)
- Some courses are related to computer science/engineering (Unity3D, Unreal, Blender, Ethics in AI...)
- But most are not: Pick anything that interests you!
• Projects are the main focus of teaching at HBKsaar
• Every semester 1-2 projects are tailored for media informatics:
  ○ Interdisciplinary Teams, Collaborating on Interactive Systems
• Software Development skills plus, ideally:
  ○ 3D Applications (Unity3D/Unreal)
  ○ Mobile Development
  ○ Any UI / Front-End stack
<table>
<thead>
<tr>
<th>Veranstaltungstitel</th>
<th>Veranstalter</th>
<th>Ort</th>
<th>Zeitraum</th>
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<tbody>
<tr>
<td>SCHREIBERATUNG / SCHREIBCAFÉ WS 2023/24</td>
<td>Dr. Florian Riesbach</td>
<td></td>
<td>27.09.2023 - 29.03.2024</td>
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<tr>
<td>BRAUCHST DU DAZ? WS 2023/24</td>
<td>Dr. Florian Riesbach, Inna Schütz</td>
<td></td>
<td>23.10.2023 - 25.03.2024</td>
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<td>„ENERGIERAUM ZEICHNUNG / NULLA DIES SINE LINEA“ – KEIN TAG OHNE LINIE</td>
<td>Dieter Call</td>
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<tr>
<td>Sprechstunde</td>
<td>Charlotte Schermer</td>
<td></td>
<td>23.10.2023 - 09.02.2024</td>
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<td>GENERATIVE ART LAB</td>
<td>Mert Aktal</td>
<td></td>
<td>20.02.2023 - 01.02.2024</td>
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<tr>
<td>NODES OF BLENDER</td>
<td>Mert Aktal</td>
<td>Fachpraxis, 4 ECTS</td>
<td>26.02.2023 - 01.02.2024</td>
</tr>
<tr>
<td>17 GUTE GRÜNDE</td>
<td>Prof. Indra Kupferschmidt, Daniela Spinielli</td>
<td>Atelierprojekt kurz, 8 ECTS</td>
<td>18.02.2023 - 09.02.2024</td>
</tr>
<tr>
<td>BLIND DATE - WS23/24</td>
<td>Leen Atya</td>
<td>Atelierprojekt kurz, Fachpraxis kurz, 8 ECTS, 4 ECTS, 2 ECTS</td>
<td>29.03.2023 - 01.04.2024</td>
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<tr>
<td>EGONAUTICS: EXPLORING THE EGO</td>
<td>Creative Werking</td>
<td>Workshop-Weche - Atelierprojekt kurz, Workshop-Weche - Fachpraxis, 8 ECTS</td>
<td>4 ECTS</td>
</tr>
<tr>
<td>AKTZEICHNEN/FIGÜRLICHES ZEICHNEN WISE 23/24</td>
<td>Armin Broni</td>
<td></td>
<td>23.03.2023 - 05.02.2024</td>
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<tr>
<td>TELL YOUR STORY - DEINE HELDENREISE! WS23/24</td>
<td>Prof. Sang-Hyung Cho</td>
<td>Atelierprojekt kurz, Fachpraxis, 8 ECTS, 10 ECTS, 4 ECTS</td>
<td>23.10.2023 - 05.02.2024</td>
</tr>
<tr>
<td>URBAN SKETCHING WISE 23/24</td>
<td></td>
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<td>23.10.2023 - 05.02.2024</td>
</tr>
</tbody>
</table>
Hexapong
SEI AUF DER LAUER UND MERKE DIR DEN WEG GUT
Manchmal höre ich wirklich ganz seltsame Geräusche. Als wären hier noch andere eingesperrt! Ein Geräusch klingt wie ein sterbender En
Escape The Schacht
Zwei Spieler können auf der Oculus Quest gegeneinander ein verrücktes Space-Tennis spielen.
Deep in a Lucid Dream
What you could take away from HBK (besides new skills):

- Experienced working & learning with designers and/or artists
- Learned something about yourself - what inspires & excites you?

www.xmlab.org → Teaching → Media Informatics FAQ