

Information Event for Master's Students and Advanced Bachelor's Students

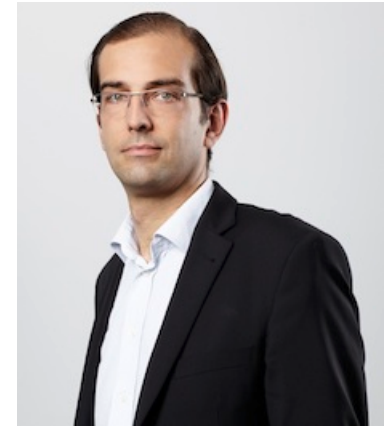


Faculty of Computer Science and Mathematics
Friday, 8th February 2019

- New professor and new stand-in professors
- Changes in study regulations
- Course offerings in the next semester
- Seminar information
- Questions, feedback and discussion

New Professor

Prof. Dr. Stefan Katzenbeisser
Technische Informatik/Computer Engineering



Research interests:

Security Engineering, esp.

- *Trusted Execution Environments (TEE)*
- *Security solutions for IoT and critical infrastructure*
- *Side-channels and covert channels*
- *Technical data security for IoT*
- *Physical Unclonable Functions (security against physical attacks)*

New stand-in Professors



Prof. Dr. Ralf Krestel
Intelligent Systems



Prof. Dr. Robert Basmadjian
Sensorics

Prof. Dr. Markus Endres
*Digital Libraries and
Web Information Systems*



Prof. Dr. Marco Kuhrmann
Software Engineering I



All Master's Programmes

- Plagiarism assessment: declaration of consent with screening of written work (e.g., use of anti-plagiarism software)
- Determination of a maximum duration of 6 months for the completion of master's theses (from the day of the supervisor's confirmation of acceptance until the due date)
- Academic progress: requirement for proof of at least 20 ECTS points after the first semester or 30 ECTS points after the second semester (for newly-admitted students only)

Master Mobile and Embedded Systems

- More flexibility in the choice of modules from focus areas: minimum of 20/15 ECTS points from 2 focus areas instead of 30/15/15 ECTS points from 3 focus areas

Focus Information and Communication Systems: 68 ECTS

- Multimedia Databases (Döller/Kosch)
- Programming Applications for Mobile Interaction (Kranz)
- Industrial Innovation Lab (Kranz)
- Ideation and Prototyping for Industrial Innovation (Kranz)
- Science and Technology Project in Physical Making, Prototyping and Testing (Kranz)
- Data Science Lab (Granitzer)
- Text Mining Project (Mitrovic)
- Preference-Based Information Retrieval (Endres)
- Energy Informatics (Basmadjian)

Focus Algorithmics and Mathematical Modeling: 27 ECTS

- Cryptography (Kreuzer)
- Model Theory (Kaiser)
- Rings and Modules (Zumbrägel)

Focus Programming and Software Systems: 25 ECTS

- Software Engineering II (Fraser)
- Software Process Engineering (Kuhrmann)
- Functional Programming (Griebel)
- Software Project Management (Palm)

Focus Intelligent Technical Systems: 21 ECTS

- Block: Search Engine Implementation (Krestel)
- Fourier and Laplace Transforms (Forster-Heinlein)
- Ideals in Numerical Applications (Sauer)

Focus IT Security and Reliability: 37 ECTS

- System Security (Posegga/Cuellar)
- Security Insider Lab II – System and Application Security (Posegga)
- Cloud Security (Reiser)
- Secure Computation (Katzenbeisser)
- Cryptography (Kreuzer)

Focus General Area: 9 ECTS

- Functional Analysis (Wirth)

Focus Human-Computer Interaction: 19 ECTS

- Multimedia Databases (Kosch)
- Programming Applications for Mobile Interaction (Kranz)
- Ideation and Prototyping for Industrial Innovation (Kranz)

Focus Data Processing, Signals and Systems: 38 ECTS

- Data Science Lab (Granitzer)
- Cryptography (Kreuzer)
- Text Mining Project (Mitrovic)
- Preference-Based Information Retrieval (Endres)
- Fourier and Laplace Transforms (Forster-Heinlein)

Focus Systems Engineering: 24 ECTS

- Multimedia Databases (Kosch)
- Cloud Security (Reiser)
- Secure Computation (Katzenbeisser)
- Energy Informatics (Basmadjian)

Furthermore: Research Internships (8 ECTS each)

Focus Algebra, Geometry and Cryptography : 18 ECTS

- Cryptography (Kreuzer)
- Ringe und Moduln (Zumbrägel)

Focus Mathematical Logic and Discrete Mathematics: 9 ECTS

- Model Theory (Kaiser)

Focus Analysis, Numerics & Approximation Theory: 18 ECTS

- Fourier and Laplace Transforms (Forster-Heinlein)
- Ideals in Numerical Applications (Sauer)

Focus Stochastics, Statistics: 5 ECTS

- Panel Data Analysis (Schnurbus)

Focus Data Analysis, Data Management & Programming: 13 ECTS

- Multimedia Databases (Kosch)
- Data Science Lab (Granitzer)

Focus Applications: 10 ECTS

- Quantitative Methods in Finance
- Market Analysis

- Compulsory seminars have higher priority over research seminars
- Decentralised registration at each single seminar (no registration at „main seminar“ in Stud.IP)
- 7 or 8 seminars for M.Sc. Computer Science, 4 or 5 seminars for M.Sc. Mobile and Embedded Systems (preliminary)



**Thank You for Your Attention!
Any Questions or Feedback?**