Contact:
Faculty of Computer Science
Prof. Dr. Kurt Englmeier
F Building, F0102
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Program for Foreign Students
Winter Term 2016/17

Klaus Chantelau
Image Processing and Compression Standards (Master), 5 CP
Students learn the foundations of the compression of audio-visual signals and the structure of audio-visual digital standards (G7xx, mp3, GIF/PNG, JPEG, H26x, MPEG1 / 2 / 4)
and apply the most important mathematical and algorithmic methods for the development and implementation of compression software modules
Tuesday, 1000-1130, lecture, F111
Tuesday, 1600-1730, lecture, F111, every fortnight
Tuesday, 1600-1730, tutorial, F207/lab PC3, every fortnight

Hartmut Seichter
Computer Graphics (Master), 5CP
Tuesday, 1415-1545, lecture, F111
Computer Graphics explores a wide range of topics in real-time and offline computer graphics, spanning from the human visual system and signal theory to graphics on mobile devices or modern Virtual Reality systems.
Selected Topics in Computer Graphics (Master), 3 CP
Tuesday, 1145-1315, tutorial, F207/lab PC3, every fortnight
Thursday, 1145-1315, lecture, F111
This term (winter 2016/17) the selected topics course will explore the use of novel user interaction techniques with Mixed Reality. Students are asked to review papers in the domain, present their findings and write an essay about future directions.
Information Visualization (Master) 3 CP
Wednesday, 1000-1130, lecture, F004
Wednesday, 1145-1315, tutorial, F207/lab PC3, every fortnight
Information visualization is an introductory course with focus on abstract data and its visual representations. Students will work on methods to visualize local, spatial data to be presented in Virtual (VR) or Augmented Reality (AR).

Regina Polster
General Management Simulation, 3 CP, course over two entire days in January
• Participants in the simulation manage a (virtual) company. They will make typical business decisions in a realistic environment. During evaluation phases, the participants will have to analyze the results of the previous period and test their overall business strategy against current economic conditions
•They learn principles of business administration: how to use information in decision-making, and how to handle risk and uncertainty.
Contact professor

Michael Cebulla
Distributed Systems (Master), 5 CP
Thursday, 0815-0945, tutorial, F207/lab PC3
Thursday, 1000-1130, lecture, F004
Distributed Systems are ubiquitous in today's computer science. In enterprise-IT, in manufacturing as well as in all other domains of information technology distributed systems the challenge consists in processing complex tasks with multiple computers which communicate with each other. The foundations and criteria for design and development of complex systems are treated in the lecture. Important programming technologies (Communication, Concurrency, Remote Method Invocation, Actors) are presented with practical exercises.

Advanced Chapters Distributed Systems (Master), 5 CP
Friday, 0815-0945, tutorial, F003/lab PC2
Friday, 1145-1315, lecture, F004
This course concentrates on advanced architectures and frameworks for distributed systems. Concepts and technologies are presented (especially SOA and EJB) and the interfaces of existing systems are explored (e.g. Facebook).

Kurt Englmeier
Agile Computing (Master), 3 CP
Wednesday, 0815-0945, lecture, F004, every fortnight
Wednesday, 0815-0945, tutorial, F003/lab PC2, every fortnight
Project Management (Master), 5 CP
Tuesday,1745-1915, tutorial, F003/lab PC2, every fortnight
Thursday, 1145-1315, lecture, F004
Enterprise Information Integration (Master), 5 CP
Tuesday, 1600-1730, lecture, F004
Tuesday, 1745-1915, tutorial, F003/lab PC2, every fortnight
Enterprise Information Integration addresses a software development project, co-authored by an industrial partner. The project's focus is information integration. Several work packages constitute the project. A team of (usually) two students is in charge with one package. The packages refer to management and training tasks, too. This means your work can be combined with the courses for project management and/or agile computing.
A certain affinity to programming is essential for participating in this project.

Erwin Neuhardt
Web Applications (Master), 5 CP
Thursday, 1600-1730, tutorial, F207/lab PC3, every fortnight
Thursday, 1600-1730, lecture, F111, every fortnight
Friday 1000-1130, lecture, F111
The students get to know the structure and the functionality of a web application. They will know two frameworks for building web applications based on the programming language Java. They get to know REST which is a standard for communicating between applications. The students know how to apply a framework for building web applications. They know the advantages and disadvantages of different frameworks.

If there are any problems, please don't hesitate to contact me: k.englmeier@hs-sm.de