inf495 - Current Topics in 'Modeling and Analysis of Complex Systems' II

Module label: Current Topics in 'Modeling and Analysis of Complex Systems' II
Module code: inf495
Credit points: 3.0 KP
Workload: 90 h
Used in course of study: Master's Programme Computing Science > Theoretische Informatik

Contact person:
- Sebastian Lehnhoff
- Sibylle Fröschle

Module responsibility:
- Sebastian Lehnhoff
- Sibylle Fröschle
- Die im Modul Lehrenden

Authorized examiners:
- Sebastian Lehnhoff
- Sibylle Fröschle
- Die im Modul Lehrenden

Entry requirements:
This module integrates current developments in the field in adequate study courses.

Skills to be acquired in this module:

Professional competences
The students:
- define and contrast a computer science part, in which they are specialised, in detail or evaluate computer science in general
- recognise and evaluate applied techniques and methods of their subject and are aware of their limits
- identify, structure and solve problems/tasks, also in new or developing subject areas
- apply state of the art and innovative methods to solve problems, if necessary from other disciplines
- are aware of the current limits and contribute to the development of computer science research and technology
- discuss and evaluate recent computer science developments

Methodological competences
The students:
- examine tasks with technical and research literature, write an academic article and present their solutions academically
- evaluate problems/tasks, including new or developing subject areas of their discipline and apply computer science methods for solutions and research
- schedule time processes and resources

Social competences
The students:
- communicate with users and experts convincingly

Self-competences
The students:
- pursue the overall and special computer science development critically
- develop and reflect self-developed hypotheses to theories independently

Module contents:
See assigned course description, e.g. „Security: Grundlagen“ oder „Security for Cyberphysical Systems“

Reader’s advisory:
As announced in course

Links:

Language of instruction: German
Duration (semesters): 1 Semester
Module frequency: unregelmäßig
Module capacity: unlimited
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<th>AS (Akzentsetzung / Accentuation)</th>
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<tr>
<td>Modulart</td>
<td>je nach Studiengang Pflicht oder Wahlpflicht</td>
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<td>Lern-/Lehrform / Type of program</td>
<td>S oder V</td>
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<td>Vorkenntnisse / Previous knowledge</td>
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<tr>
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<td>Final exam of module</td>
<td>At the end of the lecture period</td>
<td>Presentation or oral exam</td>
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