Vienna PhD School of Informatics

Social Event March 3, 2020

Andreas Steininger
PHD EDUCATION AT OUR FACULTY

common roof formed by
Vienna PhD School of Informatics

different ways of doing a PhD at our faculty

Doctoral Colleges
- Resilient Embedded Systems
- LogICs
- TrustRobots
- Smart Industrial Concept!

Teaching Assistants
4 year univ contract
teaching load

Research Assistants
project contract
reporting load

Self-Funded PhDs

... different areas, institutes, different supervisors, ...

...
VIENNA PHD SCHOOL OF INFORMATICS

**Mission:**
- simplify the processes, maintain a high standard in PhD education

**Services (in tight cooperation with the Deans of Study Affairs):**
- implement the basic curriculum common to all PhD tracks (mandatory lectures)
- organize guest lectures (selection, invitation, operation…)
- organize special courses in house (Current Trends in CS, Proposal Writing)
- maintain unified interface to the outside (webpage, PhD submissions)
- stimulate teambuilding (social events)
- provide aid to PhD students (visa, lodging, problems with supervisor,…)
- direct applications to potential supervisors, support hearings
Course Overview

18 ECTS
PhD Curriculum

- PhD Defense
- 6.0 Fundamental Courses
  - 3.0 PhD Seminar
  - 9.0 Area Courses
- Proficiency Exam

- 3.0 Philosophy of Science
- 3.0 Fundamental Research Methods
- 3.0 Career Planning
- 3.0 PhD School’s Guest Professor course
- Free Choice, related to your PhD area

Admission
• Information of the Dean’s Office about Doctoral Study Process
  
  http://www.informatik.tuwien.ac.at/dekanat/doktoratsstudium-neu
  (currently mostly in German, English version in preparation)

• Standard Procedure for Doctoral Program at the Faculty of Informatics
  
  https://informatics.tuwien.ac.at/standard-procedure-doctoral-program
# Curriculum TISS

## Vienna PhD School of Informatics

### 2019W-2020S (2011U)

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<thead>
<tr>
<th>Titel</th>
<th>Anm.Bed.</th>
<th>Stunden</th>
<th>ECTS</th>
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<tr>
<td><strong>Fundamental Courses</strong></td>
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<tr>
<td>VU Philosophy of Science</td>
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<td>VU PhD seminar</td>
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## Area Courses

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>VU</td>
<td>Reachability Analysis Techniques for Hybrid Systems</td>
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<td>199.088 VU 2020S</td>
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<td>VU</td>
<td>Resilient Computing Systems</td>
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<td>VU</td>
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<tr>
<td>VU</td>
<td>Algorithms and Complexity of Constraint Satisfaction Problems</td>
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Fundamental Research Methods for Doctoral Students,
course 195.079
U.Egly, G.Fitzpatrick, C.Frauenberger, C.Huemer, A.Posekany,
S.Schulte, A.Steininger,
schedule: every Tuesday, starting March 3
Area courses by Guest Professors – summer term

- All VU 3.0

- Reachability Analysis Techniques for Hybrid Systems
  - Prof. Erika Abraham, RWTH Aachen / Germany
  - schedule: March 1 – 10, 2020
  - Course 199.088

- Algorithms and Complexity of Constraint Satisfaction Problems
  - Prof. Miki Hermann, Ecole Polytechnique / France
  - schedule: March 11 – 31, 2020
  - Course 199.091

- Resilient Computing Systems
  - Prof. Paulo Esteves-Verissimo, University of Luxembourg
  - schedule: May 25 – 29, 2020
  - Course 199.089

- Dynamic Epistemic Logic
  - Prof. Hans van Ditmarsch, LORIA / France
  - tentative schedule: June 3 – 19, 2020
  - Course 199.090
Current Trends in Computer Science (VU 1.5, 195.072)

Ring lecture with talks given by the visiting professors of the current study year offered throughout winter and summer term

requirements for positive grade

• Preferably students should attend 4 (or more) talks (any semester)
• write a report covering 3 talks
  • with 2 pages each, if 4 talks attended
  • for students who can only attend 3 talks, this summary must comprise at least 3 pages for each talk.

Talks already scheduled:
March 4, Erika Abraham, RWTH Aachen University / Germany
Defense procedure

- effective since March 1st, 2015
- for those students
  who announced their doctoral thesis on March 1st, 2015 or later,
  who enrolled in doctoral studies for the first time after March 1st, 2015
Why enrol early?

- admission takes 3 months
- and may be conditional (extra courses)
- precondition for doing courses (registering, exams, certificates)
- precondition for taking proficiency exam
- the formal process towards the defense is quite long
- without enrolment you are excluded from important information (mailing lists, ...)
- our university is evaluated by the number of students
- enrollment (+ proficiency exam) give you certainty about the path to your PhD
Open Call for Doctoral College Resilient Embedded Systems

- We offer 4-year funding for 7 PhD positions
- Application deadline -> March 24, 2020

- DC-Res is run jointly by TU Wien’s Faculty of Informatics and FH Technikum Wien

- Main research topics:
  - Digital circuits and hardware architectures
  - Dependable, real-time systems
  - Hybrid systems and optimal control
  - Quantitative and runtime verification
  - Computational modeling and simulation
  - Autonomous systems, robotics and automation systems integration
  - Control networks design
  - Cyber-physical social systems & (Industrial) Internet of Things

- All information available here: https://informatics.tuwien.ac.at/dc-resilient-embedded-systems
You want to receive information about future social events

• please register here:

https://inn.tuwien.ac.at/socialevents_doctoralstudents
Thank you!