Project Group Presentation
Summer Term 2017
Master Computer Science & Master Computer Engineering

Matthias Fischer
Working Group Algorithms and Complexity

- Monday, February 6, 4:15pm,
- Room Q0.101, Q1.213
Agenda

Session

16:15  Why Project Groups?  Registration and Requirements
16:25  Mixed Project Groups (6) – Room: Q0.101
17:25  5 Minutes Break: CE students can move to Q1.213

Parallel Sessions

17:30  CS Project Groups (2) – Room: Q0.101
17:30  CE Project Groups (2) – Room: Q1.213

If you plan to take part in a group in Summer Term 2017, please stay here!

17:50  In front of or in room (Q0.101,Q1.213): build small groups for questions, discussion, application, declare personal interest

CE-Students (room Q1.213) should first discuss with CE supervisors and afterwards come back to Q0.101!

Mixed PG Supervisors should wait for CE students!

Mixed Project Groups (2x15 ECTS, 2x9 ECTS)
accept both Computer Science and Computer Engineering students

CS Project Groups (2x15 ECTS)
accept Computer Science students

CE Project Groups (2x9 ECTS)
accept Computer Engineering students (and EE students, not the concern today)
## Agenda

<table>
<thead>
<tr>
<th>Mixed Project Groups (2x15 ECTS, 2x9 ECTS)</th>
<th>CS Project Groups (2x15 ECTS)</th>
<th>CE Project Groups (2x9 ECTS)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>16:25</strong></td>
<td><strong>17:30</strong></td>
<td><strong>17:30</strong></td>
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<tr>
<td>Trusted Communication Module</td>
<td>History in Paderborn App</td>
<td>Image Annotation and Retrieval: Engineer vs. Machine</td>
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<td>Theory of Distributed Systems</td>
<td>Database and Information Systems</td>
<td>Signal and System Theory Group</td>
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<tr>
<td><strong>16:35</strong></td>
<td><strong>17:40</strong></td>
<td><strong>17:40</strong></td>
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<tr>
<td>Secure Integration of Cryptographic Software</td>
<td>Re(AC)^t: Reputation and Anonymous Credentials for Access Control</td>
<td>Disaster Response Robots</td>
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<td>– Software Engineering</td>
<td>Codes und Cryptography</td>
<td>GET Lab - Cognitive Systems Engineering</td>
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<td><strong>16:45</strong></td>
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<td><strong>17:05</strong></td>
</tr>
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<td>CustoNN: Customizing Neural Networks on FPGAs</td>
<td>Designing a Library for Model Analyses using the Language Workbench MPS (Meta-Programming System) from JetBrains (makers of IntelliJ)</td>
<td>Hardware Trojans in Reconfigurable Computers (ReCoTroy) – Computer Engineering</td>
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<td>– High-Performance IT Systems</td>
<td>Database and Information Systems</td>
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<td><strong>16:55</strong></td>
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<td><strong>17:05</strong></td>
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<td>Introducing Application-aware Networking in OpenStack</td>
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<td>– Computer Networks</td>
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Definition

Project Group

- **Group** of about 8 – 16 students working together on a research-related project
  - Upper limit 16 holds for all groups!
  - Lower limit 6 in particular situations!

- Duration: **one year** (two terms)

- **Research topics** from the supervisor’s field of interest

- Often students of a project group write their **master’s theses** in the same field and research topic

- Default language is English.
  - If all participating students agree, the group can be held in German.

Guidelines for project groups

- On www.upb.de/cs/pg follow the links
  - „guidelines for project groups / Rahmenrichtlinien für Projektgruppen“

- Please read it before you start a project group
Aims
Project Group

Improvement of character building – Self-organization

- Self-organization
  - Define the aims on your own (together with the supervisors)
  - Self training with necessary tools, methods and approaches (starts with a seminar)

- Practical experience in teamwork and organization of a project
  - Build your own personnel structure, similarly to an industrial team
  - Delegation of sub tasks and responsibilities to subgroups
  - Division of tasks involves the necessity to report at regular intervals and to defend the own work

- Learning systematic and methodic working
- Learning comprehensive development processes
- Final report and documentation

Approaching current research topics

- Project groups are a means for research

Intensive preparation for industrial practice
Requirements for Participation

Project Group

Project group can only be started when the **bachelor's degree** has been successfully **completed**

- Bachelor's degree is successfully completed, when all examinations have been passed and the thesis’ 4.0 confirmation is handed over to the examination secretariat (Lessmann, Guhlich) by **31 March** (PGs starting summer term) and by **30 September** (PGs starting winter term)

**New!** Project group can only be started when the **enrollment in the master's program** has been **completed**

- Students of the bachelor's program, who reach the 4.0 confirmation or examinations only on the 31st of March and on the 30th of September, must therefore enroll for the Master's program in the relevant period of the change of studies (by **21 March**)

Download this slides: www.upb.de/cs/pg
Registration & how to get a group

First Step!

Registration procedure consists of (if necessary) two steps

(more information see pdf on www.upb.de/cs/pg)

http://cs.upb.de/fileadmin/informatik/Studium/Studienelemente/Projektgruppen/PG.pdf

First step

- Choose your preferred project group and register via PAUL
- First PAUL Registration period: February 27 – March 17, 2017
- Register **ONLY** your **FIRST CHOICE** in PAUL!
- Students who cannot apply electronically via PAUL (e.g. due to missing master status) register in written form via the printed form
  "Antrag auf Zulassung zu einer Lehrveranstaltung in PAUL"
  www.upb.de/fileadmin/paul-info/Formulare/Antrag_Anmeldung.pdf
  "Application for admission to a course “
  www.upb.de/fileadmin/paul-info/Formulare/Antrag_Anmeldung_english.pdf
  both on: www.upb.de/studium/paul-info/formulare
Registration & how to get a group

First Step!

After registration deadline
- You will be informed by project group’s supervisor!

Project groups with enough participants
- The project group will take place: **Green-PG**
- → Registration is finished, be happy!
  (except students who were **rejected** due to over-occupation)

Project groups with too few participants
- The project group is **canceled** (**Red-PG**),
- or the decision is still **pending** (**Yellow-PG**)
- → Proceed with the **second step**, don’t worry!
Registration & how to get a group

Second Step!

Second step: Redistribution Meeting

- March 27, 2017, 4:15 pm, Room F1.110

Meeting’s objectives

- Assignment of project group capacities to students of PGs with under-/over-occupation
- Students and supervisors try to realize project group preferences to the effect that pending yellow project groups can be switched to red or green, and that all students can participate in a project group.
- The reallocated students are rebooked manually by the PAUL administration.

Participants

- Students of Red-PGs/Yellow-PGs
- Students of Green-PGs, who were rejected due to over-occupation
- All supervisors (also green supervisors)

Students who cannot attend the meeting can send a fellow student to represent them, or they can hand in a wish list and are represented by me or a student council’s proxy (Fachschaft).