Project Group Presentation
Winter Term 2017/18
Master Computer Science & Master Computer Engineering

Matthias Fischer

- Monday, July 24, 4:15pm,
- Room P 1.5.09 and P 1.5.08.2
Agenda

Session
16:15  Why Project Groups?  Registration and Requirements
16:25  Mixed Project Groups – Room: P 1.5.09
17:05  5 Minutes Break: CE students can move to P 1.5.08.2

Parallel Sessions
17:10  CS Project Groups – Room: P 1.5.09
17:10  CE Project Groups – Room: P 1.5.08.2

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

17:30 (CS), 17:50 (CE):  In front of or in room P 1.5.09, P 1.5.08.2:

- build small groups for questions, discussion, application, declare personal interest
- CE-Students (room P 1.5.08.2) can first discuss with CE supervisors and afterwards come back to P 1.5.09
- Mixed PG Supervisors should wait for CE students !!!

Mixed Project Groups (2x10 ECTS, 2x9 ECTS)
accept both
Computer Science and Computer Engineering students

CS Project Groups (2x10 ECTS)
accept
Computer Science students

CE Project Groups (2x9 ECTS)
accept Computer Engineering students
(and EE students, not the concern today)
### Mixed Project Groups (2x10 ECTS, 2x9 ECTS)

<table>
<thead>
<tr>
<th>Time</th>
<th>Course Title</th>
<th>Notes</th>
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<tbody>
<tr>
<td>16:25</td>
<td>Cooperative Driving - Next Generation</td>
<td>Distributed Embedded Systems</td>
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<tr>
<td>16:35</td>
<td>Application-Controlled Network</td>
<td>Computer Networks</td>
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<tr>
<td>16:45</td>
<td>Exploring Paderborn (6)</td>
<td>Database and Information Systems</td>
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<tr>
<td>16:55</td>
<td>Vehicular-VLC</td>
<td>Distributed Embedded Systems</td>
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**Wankel - High-Speed Virtual Machine Interpreters**

For information please contact Prof. Brunthaler, s.brunthaler@upb.de

**Proteus - Compile-Time Software Diversity**

For information please contact Prof. Brunthaler, s.brunthaler@upb.de

### CS Project Groups (2x10 ECTS)

<table>
<thead>
<tr>
<th>Time</th>
<th>Course Title</th>
<th>Notes</th>
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<tbody>
<tr>
<td>17:10</td>
<td>Data Extraction, Search, Analysis and Benchmarking</td>
<td>Data Science</td>
</tr>
<tr>
<td>17:20</td>
<td>24/7 Fact Checking in the linked Web of Data</td>
<td>Data Science</td>
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### CE Project Groups (2x9 ECTS)

<table>
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<tr>
<th>Time</th>
<th>Course Title</th>
<th>Notes</th>
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<tbody>
<tr>
<td>17:10</td>
<td>Medical X-ray simulator</td>
<td>Signal and System Theory Group</td>
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<tr>
<td>17:20</td>
<td>Wireless communications simulator</td>
<td>Signal and System Theory Group</td>
</tr>
<tr>
<td>17:30</td>
<td>Disaster Response Robots</td>
<td>GET Lab</td>
</tr>
<tr>
<td>17:40</td>
<td>Softwaregestützte Messdatenerfassung und –analyse</td>
<td>Measurement Engineering</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](http://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, Gühlich) 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 September**)
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: July 31 – August 25, 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

- September 25, 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).