Project Group Presentation
Winter Term 2018/19
Master Computer Science & Master Computer Engineering

Matthias Fischer

- Monday, July 16th, 4:15pm,
- Rooms P1.4.01 and P1.4.08
Agenda

Joint Session for CE + CS Students

16:15   Why Project Groups?  Registration and Requirements
16:30   Mixed Project Groups – Room: P1.4.01

After the last talk:  CE students move to P1.4.08  CS students stay here

Parallel Sessions

17:20   CS Project Groups – Room: P1.4.01
17:20   CE Project Groups – Room: P1.4.08

Discussion Session

If you plan to take part in a group in Winter Term 2018/19, please stay here!
17:40 (CS), 18:00 (CE):  In front of or in room P1.4.01, P1.4.08

- build small groups for questions, discussion, application, declare personal interest
- CE students (room P1.4.08) can first discuss with CE advisors and afterwards come back to P1.4.01
- Mixed PG advisors: Please 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)
<table>
<thead>
<tr>
<th>Time</th>
<th>Course Title</th>
<th>Department</th>
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<tbody>
<tr>
<td>16:30</td>
<td>Management of ServiCes Across MultipLE clouds (SCrAMbLE)</td>
<td>Computer Networks</td>
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<td>16:40</td>
<td>Embedded Machine Learning II (EML II)</td>
<td>Computer Engineering</td>
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<td>16:50</td>
<td>Cooperative Urban Transport Environment (CUTE)</td>
<td>Cooperative Mobile Systems</td>
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<td>17:00</td>
<td>Exploring Paderborn 8</td>
<td>Database and Information Systems (SICP/DBIS)</td>
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<td>17:10</td>
<td>Customizing Neural Networks on FPGAs (CustoNN2)</td>
<td>High-Performance IT Systems</td>
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<td><strong>CS Project Groups (2x10 ECTS)</strong></td>
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<td>17:20</td>
<td>Data Science Suite</td>
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<td>Data Science</td>
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<td>17:30</td>
<td>Visual Interactive Consistency in Tolerant Rule-Based Systems (VICToRy)</td>
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<td>Database and Information Systems</td>
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<td><strong>CE Project Groups (2x9 ECTS)</strong></td>
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<td>17:20</td>
<td>Brain sensing with EEG and signal processing</td>
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<td>Signal and System Theory</td>
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<td>17:30</td>
<td>Signal Processing and Machine Learning over Wireless Acoustic Sensor Networks</td>
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<td>Communications Engineering</td>
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<td>17:40</td>
<td>Disaster Response Robots</td>
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<td>GET Lab - Cognitive Systems Engineering</td>
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<td>17:50</td>
<td>Design of Measurement and Analysis Software</td>
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<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!

Research topics
from the advisor’s field of interest

Duration: one year (two terms)

Default language is English.
If all participating students agree, the group can be held in German.
Aims: Improvement of character building (1/2)

Project Group

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

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**Matthias Fischer**

Download these slides: [www.upb.de/cs/pg]
[www.upb.de/cs/pgen]
Aims: Improvement of character building (2/2)

Project Group

Self-organization

- **Define the aims** on your own together with the advisors
- **Self training** with necessary tools, methods and approaches

Tools
- git, JAVA, C++, UML, Android, Linux,…

Research Topic

Objective of the Project Group

Define

Download these slides:
www.upb.de/cs/pg
www.upb.de/cs/pgen
Outcome

Project Group

Your our outcome

You learn

- systematic and methodic working
- comprehensive development processes (including final report and documentation)

You

- will be intensively prepared for industrial practice
- approach current research topics
  (often students write their master’s theses in the same field and research topic)

Advisor’s outcome

- Project groups are a means for research
- Implementation and execution of research

Download these slides:
www.upb.de/cs/pg
www.upb.de/cs/pgen
Seminar

Project Group

Seminar as parallel course

- the organizer can provide a seminar parallel to the project group
- the seminar is a separate course
- the organizer determines whether participation is mandatory or optional
- the organizer decides whether such a seminar is available or not

Please note the announcements of the organizer
Requirements for Participation (1/2)

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)
Requirements for Participation (2/2)

Project Group

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 or 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, see uni webpage)
- you can submit proof of successful completion of your studies (Bachelor's certificate and deed or a corresponding certificate from the office responsible for issuing the deed) by 31 October, see uni webpage
Registration & how to get a group (1/5)

Registration procedure consists of (only if necessary) two steps

First step: Registration

- Choose your preferred project group and register via PAUL
- When? PAUL’s first Registration period
- Register ONLY your FIRST CHOICE in PAUL!

We monitor the registration phase!

If you register for more than ONE project group, we will delete ALL your registrations
Registration & how to get a group (2/5)

First step: Notification

After registration deadline

- You will be informed by project group’s advisor!
- Project group will be: Green-PG or Yellow-PG or Red-PG
Registration & how to get a group (3/5)

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!

Start
Presentation of all project groups

First step
Registration via PAUL

First step
Notification by advisor

Second step
Redistribution meeting

July 16
July 30 – August 24
approx. August 27-31
September 24

Last week of lectures Monday, 4:15pm
PAUL’s first registration period
After registration deadline
Last week of the month before the lectures starts

Download these slides:
www.upb.de/cs/pg
www.upb.de/cs/pgen
Second step: Redistribution meeting

Participants
- Students of Red-PGs/Yellow-PGs
- Students of Green-PGs, who were rejected due to over-occupation
- Yellow and all Green advisors

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).
Registration & how to get a group (5/5)

Second step: Redistribution meeting

Meeting’s objectives

- Assignment of project group capacities to students of PGs with under-/over-occupation
- Students and advisors 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.
More Information, Webpages, Links, pdf Files

Main web page for project groups: http://www.upb.de/cs/pg

Contains:

- **Listing** of all project groups (each listed group points to advisor’s PG web page)
- Information of the overall **registration and notification process**
  

- **Guidelines for project groups** (Rahmenrichtlinien für Projektgruppen)
  follow the links „guidelines for project groups / Rahmenrichtlinien für Projektgruppen“
  Please read it before you start a project group!

Students who cannot apply electronically via PAUL (e.g. due to missing master status) register in written form via the printed form

- German: "Anträge auf Zulassung zu einer Lehrveranstaltung in PAUL“
  [http://www.upb.de/fileadmin/paul-info/Formulare/Antrag_Anmeldung.pdf](http://www.upb.de/fileadmin/paul-info/Formulare/Antrag_Anmeldung.pdf)

- English: "Application for admission to a course “
  [http://www.upb.de/fileadmin/paul-info/Formulare/Antrag_Anmeldung_english.pdf](http://www.upb.de/fileadmin/paul-info/Formulare/Antrag_Anmeldung_english.pdf)

- both on: [http://www.upb.de/studium/paul-info/formulare](http://www.upb.de/studium/paul-info/formulare)