Requirements Engineering II

Introduction and Setup

Fall Semester 2015

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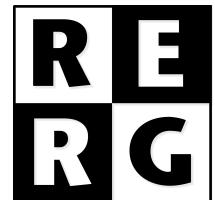
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Requirements
Engineering
Research
Group

RERG

Course Structure

Contents:
- Seven assignments on selected, advanced topics in RE

Prerequisites:
- Content of Requirements Engineering I

Style:
- Seminar-style lectures

Course Structure – 2

- Students acquire knowledge mainly themselves by
  - reading original articles
  - performing practical exercises
  - preparing presentations and giving them in class

- For every assignment, there will be a 90 minutes session in class with student presentations, Q&A, and discussion

Assignment Topics

1. Requirements Elicitation and Innovation
2. Conflict Management
3. RE and Social Computing
4. Traceability and Requirements Evolution
5. RE for Software Product Lines
6. Requirements Modeling
7. RE Tools

Assignment Materials

- Assignments typically include
  - Assignment description
  - Mandatory and theme-specific reading
  - Exercises

- See course web page at
  - http://www.ifi.uzh.ch/rerg/courses/hs15/re_ii/

- Paper download is password-protected
  - User name: stud
  - Password: communicated in class

Schedule

12 Oct. 2015	Introduction and Setup
26 Oct. 2015	1. Requirements Elicitation and Innovation RE Conferences and Journals (no assignment, information only)
09 Nov. 2015	2. Conflict Management 3. RE and Social Computing
23 Nov. 2015	4. Traceability and Requirements Evolution 5. RE for Software Product Lines
07 Dec. 2015	6. Requirements Modelling 7. RE Tools
January 2016	Final exams (to be announced)

Types of Presentations – 1

- Oral critique of mandatory readings
  - Questions to address:
    - What is the main message of the paper?
    - What are the expected practical benefits?
    - What are the strengths and weaknesses of the paper?
    - What questions do you have about the paper? (prepare at least two questions)
    - What is your personal opinion about the paper? Do you agree or disagree with its findings?
  - Provide a critique of the paper, not just a summary!
  - Prepare your critique in writing (at least a sketch)

Types of Presentations – 2

- Group presentations (based on group tasks)
  - Presentations shall be between 10 and 12 min (5 to 10 slides typically)
  - Maximum of 18 minutes in total for presentation and discussion
  - Presentation should answer the assigned questions
  - Two team members present
  - The team is responsible for moderating the discussion (this includes preparing questions)

Exams & Pass Criteria

- Pass requirements
  - Successful completion of at least 5 of 7 assignments
  - Presence in class sessions for at least 6 assignments
  - Presenting the group topic at least 2 times in class
  - Successful oral critique of at least one mandatory paper (we will pick students for presenting their critique)
  - Passing grade or better in final exam

- For passing the course, all five criteria must be met

- Final exams will be held as 15-20' oral exams

Elicitation and Innovation
Finding out what is needed

Elicitation and Innovation
Preparation

- Individual Tasks

  - Mandatory Reading
    - Zowghi: Overview of elicitation techniques
    - Beyer: How to understand needs
    - Maiden: How to support creativity

  - Working on questions and summaries
    - Prepare short summary
    - Answer given questions
    - Prepare questions for discussion

Elicitation and Innovation
Preparation

- Group Tasks

  - Preparation of talks
    - A. Distributed Requirements Elicitation
    - B. Elicitation of Requirements on Site
    - C. Creativity and Product Innovation

  - Discuss elicitation techniques for RE I case study

- Now:
  - Create 3 groups with ~6 participants each
  - Select topics

Presentation Tips
Content

- Not only summarize the papers sequentially

- Talk about your topic
    - Main message, how do papers relate to it
    - E.g. compare different approaches or highlight common ideas

- Set the papers in context to the overall topic of the assignment

Presentation Tips
Presentation Skills

- Use this course as an opportunity to train presentation skills

- Great source on how to deliver presentations: http://www.garrreynolds.com/preso-tips
  - Organization and Preparation
  - Delivery
  - Slides

- Not everything is applicable to seminar talks, but main ideas apply

Presentation Tips
Some Rules of Thumb

- Do not put text blocks on slides

- Do not use more than 7 bullet points per slide

- Better: Do not use bullet points at all

- Try to use diagrams / images instead of text

- Use animations sparingly (only appear / disappear)