

Assignment 1 – Read, Discuss and Present a Paper

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Days and Topics

March 11	Intro
March 16	Designing UbiComp Systems – Assignment 1 Published in Detail
March 23 (10-13)	Evaluating Ubiquitous Computing Systems - Paper Presentation and Discussion (Assignment 1) – Assignments 2-4 Published in Detail – Android Sensing Tutorial Day will be Announced!
April 20	Presentation Assignment 2/3
April 27	Presentation Assignment 2/3 – Submission Assignment 4
May 4	User Interfaces for Ubiquitous Computing - Assignment 5 Published in Detail
May 11	Context-Aware Computing - Details on Final Paper
May 18	Presentation Assignment 5
June 1	Presentation Assignment 5
June 8	Submission Final Paper

General Procedure

General idea: Learn from good prior research.

- Read a top paper on your own
- Discuss it within your group
- Prepare a presentation along a pre-defined structure within your group
- One group presents the paper

Learning Goals

In this assignment you practice

... critically reflecting on scientific work of others in terms of

- What did they do?
- Why did they do it? (is the argumentation plausible?)
- What did the authors learn from their research? (which insights have been gained)
- How do the authors validate / argue their insights?
- Why is the work relevant for anyone else except the authors?

... reading technical content in English

... presenting in English in front of peers

DO YOU HAVE YOUR GROUP?

Selected Papers

1. Aroyo 2005 – Waterbot: Exploring Feedback and Persuasive Techniques at the Sink
 - (providing the right temperature, motivating users to wash their hands, motivating users to not waste water)
2. Benford 2003 – Can You See Me Now?
 - Mixed reality game, in which online players “move” professional performers through real cities.
3. Cheverst 2003 – Experiences of Developing and Deploying a Context-Aware Tourist Guide
 - Location-aware system, including social recommendation (popular activities), and web-based information presentation
4. Lindqvist 2011 – Undistracted Driving
 - Activity logging with the goal to detect “driving”, and to inform the caller about potential unavailability of callee (burden shifting)
5. West 2007 – Memento: A digital physical scrapbook for memory sharing
 - Elderly people can easily transfer their physical “diary” into a website, which in turn can more easily be shared and discussed with remote friends, family members...

Papers – Groups Matching

Paper	Group(s)
1 - Waterbot	
2 – MR Game	
3 – City Guide	
4 – Undistracted Driving	
5 - Memento	

READING, DISCUSSING, UNDERSTANDING

Understanding and Critically Reflecting the Papers

Use the following questions to

- Systematically understand the paper on your own
- Discuss it systematically within your group
- Present the paper to class

Understanding and Critically Reflecting the Papers

- What did the authors do?
 - In all selected papers, the authors developed a system: Describe it in your own words
 - In what sense is the described system a ubiquitous computing system?
 - How is the interaction process of users with the system?
 - Which modes of interaction are used?
- Why did the authors do it? (is the argumentation plausible?)
 - For whom is the system valuable? In what terms is the system valuable?
 - What kind of insights do the authors expect? What knowledge do authors argue is missing from previous literature?

Understanding and Critically Reflecting the Papers

- What did the authors learn from their research? (which insights have been gained)
 - What kinds of insights? Think in terms of systems, experiences, or sensors (intelligent systems) research questions?
- How do the authors validate / argue their insights?
 - Look out for the research methodology / evaluation setup!
 - Is the methodology appropriate to “prove” what the authors claim?
- Why is the work relevant for anyone else except the authors?

ADMINISTRATIVE STUFF

Time and Templates

10 minutes per paper + 5 min discussion

You don't need to use PowerPoint!

... but if you do, TUG templates are here:

http://portal.tugraz.at/portal/page/portal/TU_Graz/Services/BDR/Oeffentlichkeitsarbeit

Paper presentations on March 23, approximately in the second half of between 10-13 (Hs i8)

Compulsory attendance!