Post-Desktop User Interfaces

Seminar at the
Media Computing Group
WS 09/10

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media computing group

Contents

- Introduction
- Logistics
- Topics
- Tips

- Introduction

- Seminar logistics

- Presentation and distribution of topics

- Research and presentation tips

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Media Computing Group

- Introduction
- Logistics
- Topics
- Tips

- Research and development
  - Interaction with multimedia
  - Ubiquitous computing
  - Tangible user interfaces
  - HCI design patterns
- Based in computer science

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PDUI Team @ media computing group

- Prof. Dr. Jan Borchers
  - B.Sc. & M.Sc. CS, U Karlsruhe & U London
  - Ph.D. CS, U Linz, U Ulm & TU Darmstadt
  - Assist. Prof. at Stanford & ETH Zurich
  - Full Prof. of CS, RWTH Aachen Univ.
  - Research area:
    Interaction Design for New Media

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PDUI Team @ media computing group

- Dipl.-Inform. Leonhard Lichtschlag
  - Diplom, RWTH Aachen

  lichtschlag@cs.rwth-aachen.de

- Dipl.-Inform. Dipl.-Wirt. Inform. Max Möllers
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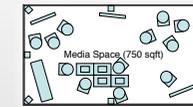
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Our Projects

Route Charlemagne

DRAGON
Audio/Video Navigation

Media Space (750 sqft)
Interactive Room for Collaborative Work with Different Types of Media

Multitouch tables

Haptic feedback for sports training

Novel Input Metaphors

Post-Desktop UIs?

- Desktop metaphor: office-based

- What about non-office tasks?

- Task-specific user-interfaces?

- Research field: Human Computer Interaction

  ➡ Media Computing Group at RWTH

Format

- Language = English

- Groups of 2

  - No separation of responsibility.

  - Each person should know the content and be able to give presentation / answer questions.

  - Questions may be directed at a particular person during Q&A session.

Format

- Attending all talks is mandatory

- Only exception: Medical certificate

- Talk and written report are graded seperately

Schedule

Weeks before final presentation	Milestone
today	Start
9	Literature Review
7	Outline of Report
4	First Submission of Report
2	Presentation Slides
1	Camera-ready Presentation slides
0	Presentation
-2	Final Report Submission

Deadlines are mandatory!

Milestone 1:
Literature Review

- When: 9 weeks before final talk, 9am

- How: Meeting in room 2314
  and e-mail submission

Do NOT cite Wikipedia!

- Deliverable:

  ▸ List of at least 7 relevant related papers

  ▸ For each paper: 30 word statement of benefits and contribution

  http://sigchi.org/chi2003/papers_guide.html#contribution

E-Mail Submission

- All submissions

  ▸ to lichtschlag@cs.rwth-aachen.de

  ▸ subject starts with PDUI Submission
    example: "PDUI Submission - Final Talk"

- Everything else

  ▸ to {lichtschlag, max}@cs.rwth-aachen.de

Milestone II:
Outline of Report

- When: 7 weeks before final talk, 10am

- How: Meeting in room 2314
  <u>and</u> e-mail submission

- Deliverable:

  ▸ Clear structure of final paper submission

Milestone III:
First Submission of Report

- When: 4 weeks before final talk, 12pm (noon)

- How: E-mail submission, after correction:
  feedback meeting on appointment

- Deliverable:

  ▸ First complete version of paper

  ▸ Proof-read, no typos, no layout issues

Milestone IV:
Presentation Slides

- When: 2 weeks before final talk, 11am

- How: Meeting in room 2314
  <u>and</u> e-mail submission

- Deliverable:

  ▸ Complete, polished version of
  presentation slides

  ▸ Powerpoint / Keynote slide available
  on website

Milestone V:
Camera-Ready Presentation Slides

- When: 1 weeks before final talk, 12am

- How: Meeting in room 2314
  <u>and</u> e-mail submission

- Deliverable:

  ▸ Improved version of presentation slides
  (after feedback)

- Last chance to get feedback

Milestone VI: Presentation

- When: Thursdays, 3:45pm - 5:15pm
  - ▸ See topics list for exact dates
- Where: Room 2010 or 2U13 (here)
- Format:
  - ▸ 40 minute presentation
  - ▸ Question and answer
  - ▸ Review of presentation style
- Presentation is captured on video
- 50% of final grade

Milestone VII: Final Report Submission

- When: 2 weeks *after* final talk, 12pm (noon)
- How: Deliver bound, color-printed version in room 2314 and e-mail submission
- Deliverable:
  - ▸ Final version of your paper
- 50% of final grade

Extra Credit

- Active participation in talk discussions
- Eases the decision if student's performance is between two grades

Written Report

- We focus on teaching the basics of writing a conference paper.
  - Must follow CHI conference paper format guidelines
    - LaTeX template for Papers at: http://www.chi2008.org/formatting.html
  - Max. 10 pages (learn to be concise)

Further Requirements

- Be impartial and critical

- Attend one user test

  - Deadline: end of the semester

- Ethical Guidelines for the Authoring of Academic Work

- Literature review
  (Literaturrecherche für Informatiker)

- Ask your supervisor if you have questions!

?

Topics

- Topics were chosen by us because we want to learn more about them.

  - You are responsible for informing us

- Need more than just a summary

  - Demonstrate higher level understanding:

    - Taxonomy / Ontology / Design Space

    - Derive Design Patterns

Time to find a seminar partner ...

... and a topic

Seminar Tips

- Some pointers on
  - Topic research
  - Paper writing
  - Slide preparation
  - Presenting

Types of Publications

- Book - (~ 20 years)
- Journal Paper - (~5-10 years)
- Conference Paper - (~3-5 years)
  - Stick to reputable conferences (e.g., ACM, IEEE)
- Workshop Paper - (~1 year)
- Technical Report - (caution: no peer review)

Typical Review Template

- Rating of Expertise
- Statement of Contribution to HCI
- The Review:
  - Relevant previous work
  - Significance of contribution
  - Validity of work
  - Originality of Work
- Areas of Improvement
- Rating (1-5)

More tips here...

http://hci.rwth-aachen.de/pdui

(see Additional Information)