

Post-Desktop User Interfaces

Seminar at the Media Computing Group WS 06/07

Prof. Dr. Jan Borchers Rafael "Tico" Ballagas M. Sc., Dipl. Inform. Thorsten Karrer, Dipl. Inform. Daniel Spelmezan, David Holman M. Sc., Eric Lee M. Sc.

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Post-Desktop User Interfaces

Contents



- Introduction
- Seminar logistics
- Presentation and distribution of topics
- Research and presentation tips



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Post-Desktop Uls?



Desktop metaphor: office-based

- What about non-office tasks?
- Task-specific user-interfaces?
- Research field: Human Computer Interaction
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- Research and development
 - Interaction with multimedia
 - Ubiquitous computing
 - Tangible user interfaces
 - HCI design patterns
- Based in computer science



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The Team



Rafael Ballagas M. Sc. - Stanford



Prof. Dr. Jan Borchers

- Karlsruhe
- Darmstadt, Linz
- Stanford

Dipl. Inform. Daniel Spelmezan - RWTH



Introduction

Logistics

Topics

Tips



Dipl. Inform. Thorsten Karrer - RWTH



Eric Lee M. Sc. - Stanford David Holman M. Sc. - Queens Uni.



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Virtual Conducting Systems



Interactive Room for Collaborative Work with Different Types of Media

Interactive Exhibits for the Regensburg Experience



coJIVE - collaborative Jazz Improvisation



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Interacting with Large Public Displays

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Improving Orchestral Conducting Systems in Public Spaces: Examining the Temporal Characteristics and Conceptual Models of Conducting Gestures

> Eric Lee Marius Wolf Jan Borchers

Media Computing Group RWTH Aachen University . with

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Course Logistics

- When: Thursdays, 16:00-17:30
 - See Topics list for exact dates
- Where: Room 2010 (here)
- Format:
 - One hour presentation
 - 30 minute Q&A



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Group Format



- Groups of 2
 - No seperation 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.



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Written Report



- Paper Deadline: One week before presentation.
 - Corrections / Improvements after deadline
- We focus on teaching the basics of writing a conference paper.
 - Must follow CHI conference paper format guidelines:

• Max: 10 pages (Learn to be concise)

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Further Requirements

- meetings with supervisor
 - Presenting papers, articles, etc.
 - Structure of presentation and paper
 - Presenting slides (2 weeks before presentation)
 - Discussing paper draft
- Participate in at least I hour of user testing
 - Deadline: end of the semester



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Introduction

Logistics

Topics

Tips

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

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I. Improving sports performance with wearable computing

- Supervisor: Daniel Spelmezan
- Students
 - Florian Reske, Manu Agelescu
- Presentation date
 - 2006.10.26



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2. Real-time motion and activity recognition with sensors

- Supervisor (Daniel Spelmezan, Tico Ballagas
- Students
 - Moritz Wittenhagen, Tim Hemig
- Presentation date
 - 2006.11.02



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3. End User Programming



Supervisor: Tico Ballagas

- Students
 - Klaus Meyer, Chirstian Brockly
- Presentation date
 - 2006.11.09



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4. Physics in the user interface



- Supervisor: Thorsten Karrer
- Students
 - Leonhard Lichtschlag, Katja Kurdyukova
- Presentation date
 - 2006.11.16



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5. Mobile Music



- Supervisor: Tico Ballagas
- Students
 - Mei Feng Liau, Hendra Gunawan
- Presentation date
 - 2006.11.23



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6. Tabletop Interactions



- Supervisor: David Holman
- Students
 - Aldabert Schanowski, Christian Gass
- Presentation date
 - 2006.11.30



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7. Fiducials



- Supervisor: Tico Ballagas
- Students
 - Hoefig Kai, Noriyasu Vontin
- Presentation date
 - 2006.12.07



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8. Affect



- Supervisor: David Holman
- Students
 - Alexander Schiffel, Daniel Herding
- Presentation date
 - 2007.01.18



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9. Multimedia Architectures

- Supervisor: Eric Lee
- Students
 - Alex Hoffmann, Ines Faerber
- Presentation date
 - 2007.01.25



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10. Audio Skimming



- Supervisor
 - Rafael Ballagas
- Students
 - Bjoern Ganslandt, Nils Jeners
- Presentation date
 - 2007.02.01



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Seminar Tips

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



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Types of Publications

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

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Tips

Library Support



- The Library has a variety of resources to help you find these different types of publications
- Special course for our seminar Tuesday, 6-9, 10am



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Writing Tips



- Papers and Presentations must be in English
- Review Strunk & White's "Elements of Style"
 - Retail for around 6 Euros
 - Free version available online



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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)
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Contribution and Benefits Statement



- Authors must submit along with paper
- For each paper you reference you should provide a C&S statement
- Maximum 30 words



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- Keep a clear structure
- Important information?
- Our templates (Keynote, PPT)



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Logistics Topics Tips Sections

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Slide Content



• Text

Supports presentation

• Bullet points: short but meaningful

- Media
 - Images
 - Audio & Video





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Presentation



- Appropriate volume, speed and tone
- Draw in the audience
 - Look at them
 - Questions & Demonstrations
- Rehearse your presentation





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