

Summary

Second Workshop on Empirical Evaluation of Adaptive Systems (W3)

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Outline

Schedule

I. Criteria

II. System Comparison

III. Empirical Studies

Future Perspectives

- Measures of Adaptive Communication (*Matessa*)
- Evaluation of an on-vehicle adaptive tourist service (*Console, Gena and Torre*)
- Integrating Layered and Heuristic Evaluation for Adaptive Learning Environments (*Magoulas, Chen and Papanikolaou*)
- Utility-Based Evaluation of Adaptive Systems (*Herder*)
- Yet Another Evaluation Framework (*Tobar*)
- Proposal of an integrated picture on the evaluation of adaptive systems (*Weibelzahl, Paramythis and Totter*)
- Understanding Recommender Systems: Experimental Evaluation Challenges (*Del Missier and Ricci*)

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- What **criteria and empirical methods** can be used for the evaluation of adaptive systems? What new **criteria** need to be introduced to specifically cater for the presence of adaptation in the evaluated systems?
- Can metrics be developed to facilitate the **comparison between different** (versions of) **adaptive systems**, or between adaptive and non-adaptive systems?
- How can we **foster an increase in the volume and quality of empirical evaluations** of adaptive systems?

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Future Perspectives

- Application domain plays important role; different criteria for different domains
- Consideration of subgroups (e.g., age, gender, users' experience, ...)
- Isolating problems by isolating subgroups
- Humans as example for ideal adaptation
- Dicing and slicing components (layered approach)
- Adoption of usability heuristics
 - Heuristics can be integrated with layered approach
 - Dedicated „adaptation heuristics“

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- Comparison of output given specific UM parameters
- Diversity/variance of user behavior as indicator of adaptivity
- Utility functions (dependencies between utilities)

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- Structured approach / framework as guidance
- Raise awareness of evaluation issues
 - Tutorials, conferences, workshops
 - Teaching materials for community and courses
- Evaluation with users required for PhD acceptance

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- Online Proceedings:
<http://art.ph-freiburg.de/um2003/>
- Third Workshop on Empirical Evaluation of Adaptive Systems (at AH2004?)
- Web-site as hub for evaluation issues

Thanks to the workshop chairs

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