

CoMoRea '05

2nd IEEE PerCom Workshop on Context Modeling and Reasoning (CoMoRea)
at 3rd IEEE International Conference on Pervasive Computing and Communication (PerCom'05),
March 12th 2005, Hawaii

<http://www.nexus.uni-stuttgart.de/COMOREA>

Deadline Extension: 15. Oct. 2004 (firm deadline)

Call for Papers

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1. Workshop Scope
2. Topics
3. Submissions
4. Important Dates
5. Contact
6. Steering Committee
7. Program Committee

Workshop Scope

Many applications from the ubiquitous and pervasive computing domain are also characterized as context-aware applications. They react not only to their internal state and user interaction but also depend on the context they are processed in. In the past a variety of context-models was subject of research. While early models mainly addressed the modeling of context with respect to one application or an application class, generic context models are of interest since many applications can benefit from these.

Existing context models vary in the context they represent. While some models take the user's current situation, e.g. "in a meeting", into account, others model the physical environment, i.e. locations. First steps towards a common understanding of context have been published, mostly with respect to location, identity, and time. In order to advance the state of the art, we need to develop uniform context models, representation and query languages, and reasoning algorithms that facilitate interoperability of applications and context sharing.

This workshop's aim is to discuss fundamental issues in context management and to identify widely applicable concepts, theories and methods. This includes theoretical and practical issues related to modeling and reasoning about context as well as system-oriented issues related to the design and implementation of context-aware systems.

CoMoRea will provide a forum for researchers to present and discuss recent research results and ongoing work. A strong emphasis is put on experiences with context representation and the management of context information. The anticipated outcome of the workshop is a clarification of context representation, its management, and possible architectures based on the experiences and discussions at the workshop.

Topics

- Semantics of context models, context ontologies
- Context models
 - Modeling the physical world
 - Spatial and location models
 - Domain specific models
 - Properties of context models: consistency, accuracy, etc.
 - Integration of context models
- Context representation languages
 - Properties of representation languages: expressiveness, interoperability, etc.
- Context reasoning algorithms
 - Properties of context reasoning algorithms: complexity, accuracy, etc.

- Context query languages
- Context services: architectures, implementations, and experiences
- Context capturing
- Experience reports in the development of context-aware systems and applications, focussing on context modeling and reasoning

Submissions

Submissions of papers are solicited in the IEEE proceedings format. Research papers must be original prior unpublished work and not under review elsewhere. These can contain prior work if clearly identified in the submission. Additionally a comprehensive discussion of the taken approach, experiences, and its assessment is expected. Submissions must not exceed 5 pages in the IEEE proceedings format including references and figures. Please send your submission in PDF format to Daniela Nicklas <daniela.nicklas@informatik.uni-stuttgart.de>.

Accepted papers will appear in the combined PerCom 05 workshop proceedings.

Important Dates

Submission deadline	October 15, 2004
Notification	November 15, 2004
Camera ready copy	December 18, 2004
Workshop	March 12, 2005

Contact

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Steering Committee

- Daniela Nicklas, IPVS, University of Stuttgart, Germany
- Christian Becker, IPVS, University of Stuttgart, Germany
- Gerd Kortuem, Computing Department, Lancaster University, UK
- Gopal Pingali, IBM T. J. Watson Research Center, USA
- Peter Steenkiste, Carnegie Mellon University, USA

Program Committee

- Jalal Al-Muhtadi, University of Illinois Urbana Champaign, USA
- Martin Bauer, University of Stuttgart, Germany
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- Karen Henricksen, Distributed Systems Technology Centre, Australia
- Gerd Kortuem, Lancaster University, UK
- Ghita Kouadri Mostefaoui, Fribourg/Paris, CH
- Antonio Krüger, University of Saarland, Germany
- Daniela Nicklas, University of Stuttgart, Germany
- Paddy Nixon, University of Strathclyde, UK
- Gopal Pingali, IBM T. J. Watson Research Center, USA
- Peter Steenkiste, Carnegie Mellon University, USA
- Thomas Strang, German Aerospace Center (DLR), Germany