Welcome to MRC 2016

Context plays an increasingly important role in modern IT applications. Context sensitivity and awareness is becoming essential, not only for mobile systems, ambient computing and the internet of things, but also for a wide range of other areas, such as learning and teaching solutions, collaborative software, web engineering and health care work-flow. Advancing the use and understanding of context beyond stimuli-response systems suggests a knowledge perspective on modelling and reasoning.

From an AI perspective, one of the challenges is to integrate context with other types of knowledge as a major additional source for reasoning, decision-making, and adaptation and to form a coherent and versatile architecture. There is a common understanding that achieving desired behaviour from intelligent systems will depend on the ability to represent and manipulate information about a rich range of contextual factors.

These factors may include not only physical characteristics of the task environment, but, possibly more importantly, many other aspects including cognitive factors such as the knowledge states (of both the application and user) or emotions, and social factors such as networks, relations, roles, and hierarchies. This representation and reasoning problem presents research challenges to which methodologies derived from areas such as artificial intelligence, knowledge management, human-computer interaction, semiotics and psychology can contribute solutions.

Despite the value of diverse approaches to context, integrating findings from the social sciences into the design of context-aware systems and building psychologically plausible knowledge models remains problematic. Furthermore, it is difficult to deal with uncertainty on different levels, from interpretation of uncertain sensor input data through to identification of contexts with fuzzy borders. Moreover, the ability of the system to use explanations, both as a part of its reasoning and as a means of communication with the user, requires further consideration.

Agenda

The workshop will last one full day and will have three main types of interaction.

The first type will consist of short presentations of the accepted papers. The goal of these sessions is to introduce the work of all the participants.

The second type will consist of two panel discussion sessions, each dedicated to one specific issue. The suggested issues are "context awareness" and "context sensitivity", but are subject to change dependent on the interests of the attendees and the nature of submissions. The goal of these panels is to discuss the various approaches to each of these basic issues and to identify the critical problems in need of attention and the most promising research directions.

The workshop will be concluded with the last type, an open discussion summarising the most important lessons learned.

Industry representatives are invited to display context related demonstrations during the workshop.

Websites

More information and the paper submission system can be found on the workshop website at:

mrc.kriwi.de

The ECAI 2016 main conference website has more information about the location and the registration process as well as links to the paper templates:

www.ecai2016.org

Important Dates

Papers due	June 14, 2016
Notification	June 28, 2016
Camera-ready	July 18, 2016
MRC Workshop	August 30, 2016

Eighth International Workshop

Modelling and Reasoning in Context (MRC)

Held at ECAI 2016
The Hague, The Netherlands
29 Aug - 02 Sep 2016

Workshop Objectives

The Modelling and Reasoning in Context workshop series aims to bring together researchers and practitioners from different communities, both in industry and academia, to study, understand, and explore issues surrounding context. By considering modelling and reasoning approaches for context-sensitive systems from a broad range of areas, the workshop will facilitate the sharing of problems, techniques, and solutions. The workshop covers different understandings of what context is, different approaches to modelling context, mechanisms and techniques for structured storage of contextual information, effective ways to retrieve it, and methods for enabling integration of context and application knowledge.

MRC provides a forum to exchange and discuss issues and ideas in a friendly, cooperative environment.

Topics of Interest

Areas of interest include, but are not limited to:

- Generic and specific context models
- Explicit representations
- Trans- and interdisciplinary models of context
- Representation of and reasoning with uncertainty
- Retrieval of context and context information
- Context-based retrieval and reasoning
- Socio-technical issues
- Context awareness and context-sensitivity
- Context awareness in applications
- Evaluation of context-aware applications
- Explanation and context
- Mobile context
- Information ageing
- Context focusing and context switching
- Context management

Submissions

Submitted papers must be formatted according to the camera-ready style for ECAI 2016, and submitted electronically in PDF format only through the Easy-Chair pages for MRC 2016. Authorship is not anonymous.

Papers are allowed eight (8) pages. An additional page containing the list of references is allowed, as long as this ninth page contains only references. Short papers, not exceeding two (2) pages, may be submitted for short oral presentation. Both full and short papers will be published online in the workshop proceedings.

Submissions must be original, and in particular should not previously have been formally published or accepted for publication elsewhere.

Three members of the program committee will review each submission. A review form will direct committee members to evaluate submissions for appropriateness, technical strength, originality, presentation, and overall evaluation, as well as recording the reviewer's confidence in the topic.

The proceedings of the workshop will be published electronically on a USB stick and made freely available at a suitable online location like the CEUR Workshop Proceedings. Authors of accepted papers might be invited to submit extended versions for inclusion in a special journal issue on contextualised systems, if justified by the quantity and quality of submissions.

The authors will be responsible for producing camera-ready copies of papers in PDF format, conforming to the formatting guidelines, for inclusion in the published proceedings.

At least one author of each accepted paper is required to attend the workshop to present the contribution.

Paper submission via EasyChair at:

easychair.org/conferences/?conf=mrc2016

Note: Special submission instructions and later deadlines apply to papers previously submitted to the main conference ECAI 2016.

Chairs

Jörg Cassens
IMAI, University of Hildesheim, Germany

Rebekah Wegener
RWTH Aachen University, Germany
and Audaxi, Sydney, Australia

Anders Kofod-Petersen
Alexandra Institute, Copenhagen, Denmark
and NTNU, Trondheim, Norway

Program Committee

Subject to amendments.

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  Middlesex University, UK
- Tarek Richard Besold
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