Welcome to MRC 2008

Context sensitive processing plays a key role in many modern IT applications, with context-awareness and context-based reasoning essential not only for mobile and ubiquitous computing, but also for a wide range of other areas such as collaborative software, web engineering, personal digital assistants, information sharing, health care workflow and patient control, adaptive games, and e-Learning solutions.

From an intelligent systems perspective, one of the challenges is to integrate context with other types of knowledge as an additional major 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 many other aspects such as the knowledge states (of both the application and user), emotions, etc. This representation and reasoning problem present research challenges to which methodologies derived amongst others from artificial intelligence, knowledge management, human-computer interaction, and psychology can contribute solutions.

One specific problem is to deal with uncertainty on different levels, from interpretation of uncertain sensor input data up to identification of contexts with fuzzy borders. Another issue is how to integrate findings from the social sciences and psychology into the design of context aware systems and how to build psychologically plausible knowledge models. A third aspect is the ability of the system to use explanations, both as a part of its reasoning and as a means of communication with the user.

Background

Where traditional software applications 'know' by design in which situations they are to function, applications in pervasive computing and ambient intelligence do not necessarily have this luxury. Due to the very nature of the dynamism in the world with which these systems interact, they have to dynamically adapt their behaviour in run time. To do this, they must be able to somehow interpret the environment in which they are situated. This ability is often referred to as being context aware, or even situation aware. Being aware of the environment facilitates the ability to adapt behaviour by being context sensitive.

Websites

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

http://events.idi.ntnu.no/mrc2008/

The HCP 08 main conference website which has more information about the location and the registration process as well as other workshops:

http://wiki.decis.nl/publichcp2008/

Important Dates (Changed)

Submission of papers	March 28
Notification	April 14
Camera-ready copies	April 21
MRC Workshop	June 9-10



MRC 2008



Lodeling and Reasoning in P 08, Delft, The Netherlands, 9-12 June 2008

Chairs

Norwegian University of Science and Technology Department of Computer and Information Science Anders Kofod-Petersen

Norwegian University of Science and Technology Department of Computer and Information Science Jorg Cassens

ASU KiisrovinU nabibaI Computer Science Department David B. Leake

Algarve University, Portugal Faculdade de Cièncias e Tecnologia Marielba Zacarias

Program Committee

- Patrick Brézillon, University of Paris 6, France

- Henning Christiansen, RUC, Denmark
- Chiara Chidini, FBK-irst, Italy - Lorcan Coyle, UCD, Ireland
- Eyke Hüllermeier, Marburg University, Germany
- Boicho Kokinov, NBU, Bulgaria
- John Krogstie, NTNU, Norway
- Sur, Bahia Blanca, Argentina - Ana G. Maguitman, Universidad Nacional del
- Enric Plaza, IIIA-CSIC, Spain
- Hedda Schmidtke, GIST, Korea - Thomas R. Roth-Berghofer, DFKI, Germany
- Stefan Schulz, The e-Spirit Company, Germany
- Sven Schwarz, Drkl, Germany
- Santtu Toivonen, Idean, Finland - Patrícia Tedesco, UFPE, Brazil
- José Tribolet, Technical University of Lisbon,
- Roy Turner, University of Maine, USA рвпџод
- nilon isu- Redekah Wegener, Macquarie University,

snoissimdu2

www.springer.de/comp/lncs/authors.html. and templates are available on the web at http:// 12 pages in the Springer LNCS format. Guidelines of February 2008. Paper length should not exceed tem. Paper submission will be opened in the middle format only, using the EasyChair submission sys-Workshop submissions will be electronic, in PDF

a publication. will be invited to submit extended versions for such context aware systems, authors of accepted papers missions justifies a book or special journal issue on ings. Provided that the quantity and quality of sub-Papers will be published in accompanying proceed-

the workshop. least one author of each accepted paper must attend this workshop and the main HCP 08 conference. At All workshop participants must register both for

bnagA

learned.

ganised into three main parts. The workshop will last two full days and will be or-

the participants. goal of these sessions is to introduce the work of all session will be followed by a discussion period. The the accepted papers, grouped into sessions. Each The first part will consist of short presentations of

and the most promising research directions. identify the critical problems in need of attention ous approaches to each of these basic issues and to ture of submissions. The goal is to discuss the varident on the interests of the attendees and the na-"open topics". These are subject to change depentext", "key issues for reasoning in context", and Suggested topics are "key issues for modelling consion sessions, each dedicated to one specific issue. The second part will consist of three panel discus-

cussion summarising the most important lessons The workshop will be concluded with an open dis-

Workshop Objectives

ing context. development and application of IT systems utilisgether to study, understand, and explore issues of representatives from different communities tosearchers from both industry and academia, and The major goal of the workshop is to bring re-

application knowledge. and methods for enabling integration of context and textual information, effective ways to retrieve it, nisms and techniques for structured storage of concation areas. The workshop will examine mechaand techniques across different research and applifrom a broad range of areas, to share their problems sues and approaches for context sensitive systems, practitioners exploring modelling and reasoning is-MRC aims to provide a forum for scientists and

sues to exchange and discuss issues and ideas in a entists and practitioners addressing the above isseries, established in 2004, provides a forum for sci-The Modeling and Reasoning in Context workshop

friendly, cooperative environment.

Topics of Interest

Areas of interest include, but are not limited to:

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