

CFP: Workshop: Case Based Reasoning and Context Awareness

To be held at ICCBR 2007: The 7th International Conference on Case Based Reasoning, August 15, 2007, Belfast, UK

Workshop website: <http://crypt.ucd.ie/cacoa/>
Conference website: <http://www.iccbr.org/iccbr07/>

Deadlines & Dates

April 30, 2007 *Deadline for workshop paper submission*
May 28, 2007 Notification of acceptance for workshop papers
June 25, 2007 Final camera ready copies to be received by workshop organizers
August 15, 2007 CaCoA Workshop held at ICCBR 2007

Motivation

Context-sensitive processing has a key role in many modern intelligent IT applications, with context-awareness and context-reasoning being essential not only for mobile, pervasive, and ubiquitous computing, but also for a wide range of other areas such as recommender systems, collaborative software, web engineering, information sharing, health care workflow and patient control, adaptive games, autonomic systems, and e-Learning solutions. Context awareness in Case-Based Reasoning (CBR) systems has also become a topic of increased research. In CBR, context serves as a major source for reasoning, decision-making, and adaptation. Consequently, achieving desired behaviors from CBR systems in these areas 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), and user beliefs and emotions. The representation and reasoning problem therein presents research challenges to which numerous methods and techniques derived from artificial intelligence and knowledge management (e.g., logical reasoning, object relationship models, ontologies, similarity measures, and intelligent retrieval mechanisms) are now being brought to bear. This workshop aims to bring together researchers and practitioners exploring issues and approaches for context-sensitive systems involving CBR to share their problems and techniques. It will examine mechanisms and techniques for structured storage of contextual information, effective ways to retrieve, reuse, and adapt it, as well as methods for enabling integration of context and application knowledge.

Objectives

This workshop will bring together industry and academic researchers and scientists to study, understand, and explore the handling of context in intelligent IT applications, with a particular focus on Case Based Reasoning. Besides contributed papers and invited talks, this workshop will offer organized and open spaces for targeted discussions. The workshop will explore the following topics along the intersection of context-awareness and case-based reasoning:

- Context-awareness and machine learning
- Context and the CBR cycle
- Reasoning about context with cases
- Improving recommender systems using context
- Modelling context features for CBR
- CBR applied to autonomies, pervasive computing, ambient intelligence, and ubiquitous computing

- Real-world and sensed features in case-based reasoning
- Real-time case-based reasoning
- Evaluating context-aware CBR applications

Program Committee

- Patrick Brezillon, University Paris 6, France
- Andrea Freßmann, University of Trier, Germany
- Conor Hayes, Digital Enterprise Research Institute, Galway, Ireland
- Anders Kofod-Petersen, Norwegian University of Science and Technology, Norway
- Enric Plaza, IIIACSIC, Spain
- Thomas Roth-Berghofer, University of Kaiserslautern, Germany
- Thomas Sauer, rjm Business Solutions GmbH, Germany
- Marielba Silva Zacarias, Universidade do Algarve, Portugal
- Barbara Weber, University of Innsbruck, Austria

Submissions

We invite paper submissions including descriptions of works in progress, research contributions, and position statements. Submissions should attempt to address one or more of the aforementioned questions regarding the use of context-awareness and case based reasoning. Workshop papers should be submitted in Springer LNCS format, which is the format required for the final camera ready copy, with a maximum of 10 pages. (Shorter position papers are also welcome.) Authors' instructions along with LaTeX and Word macro files are available on the web at <http://www.springer.de/comp/lncs/authors.html>

Submissions should be made through the workshop conference management system - <http://iccb07-ws-context.confmaster.net/>. For further information, contact the workshop organizers.

Workshop Organizers

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