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Case-Based Reasoning and Context Awareness (CACOA) 2006

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Proceedings

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Preface

Context-sensitive processing has a key role in many modern intelligent IT applications, with context-awareness and context-based reasoning being 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. As such, context awareness in case-based reasoning (CBR) systems is a topic of increased research.

In these areas, 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 knowledge states (of both the application and user), emotions, etc.

The representation and reasoning problem 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 aimed to bring together a broad range of researchers and practitioners exploring issues and approaches for context-sensitive systems involving CBR. The workshop examined 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. As we were interested in understanding and discussing new trends, ideas, and technology, we also encouraged submissions of work in progress.

We conclude this preface by extending our thanks to the members of the programme committee of the CACOA workshop, for their efforts and hard work in the reviewing process. Further, we thank all the authors who submitted articles to the workshop to make this program possible and last, but not least, we thank the workshop participants for their contributions.

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