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Proceedings

**Workshop on Contexts and Ontologies**

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## **Foreword**

Contexts and ontologies play a crucial role in knowledge representation and reasoning. Computer systems which act intelligently need the ability to represent, utilize and reason about contexts and ontologies. There were a number of projects devoted to the definition and usage of contexts as well as ontologies in intelligent KR systems. With the advent of the web and the ubiquitous connectivity, contexts and ontologies have become a relevant notion also in other, more recent, disciplines. Many application areas such as, information integration, distributed knowledge management, semantic web, multi-agent systems, distributed reasoning, data grid and grid computing, pervasive computing and ambient intelligence as well as peer-to-peer information management systems, have acknowledged the need of methods to represent and reason about knowledge which is scattered in a large set of contexts and ontologies.

During the last decade, there has been a line of successful series of workshops and conferences on the development and application of contexts and ontologies. Three successful workshops have focused on combining the themes of ontologies and contexts, and have discussed them as complementary disciplines. The first two are “Contexts and Ontologies: Theory, Practice and Applications (C&O)” and “Context Representation and Reasoning (CRR)”. These two previous series of workshops was merged into the “Contexts and Ontologies: Representation and Reasoning (C&O:RR)” workshop. The C&O:RR workshop aims at keeping the focus on combination of contexts and ontologies and at emphasizing the representation and reasoning aspects of research in the field of context and ontology that was the peculiarity of the CRR workshop. This workshop is the continuation of the C&O:RR 2007 under a broader title.

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