

SWEL'07: Ontologies and Semantic Web Services for Intelligent Distributed Educational Systems

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Preface

The SWEL'07 workshop at AIED'07 aims to address issues related to using Semantic Web based knowledge representation and Grid technologies for the design and development of intelligent distributed educational systems. It covers topics related to the use of ontologies, Semantic Web standards, and distributed processes enabled by Grid technologies for learning content delivery, services and knowledge components specification, effective intelligent courseware construction, and learner modelling.

SWEL'07 is the fifth in a series, following the successful edition in 2002, held in conjunction with ICCE'02, the three sessions of SWEL'04 in conjunction with ITS'04, AH'04, and ISWC'04, the three sessions of SWEL'05 in conjunction with AIED'05, ICALT'05, and K-CAP'05, and SWEL'06 held in conjunction with AH'06.

This edition has a special focus on service-oriented Semantic Grid Architectures for e-Learning and is organized together with two SIGs of the European Network of Excellence Kaleidoscope “Artificial Intelligence and Education” and “Learning Grid”.

Two sessions are included in the workshop focused on the following topics.

1. Session on Ontologies and Semantic Web Standards for e-Learning:
 - Building ontologies for e-learning; theoretical issues in ontology engineering.
 - Using ontologies and Semantic Web standards for structuring, representing, indexing, and retrieving shareable and interoperable learning resources.
 - Using ontologies and SW standards for supporting authoring of intelligent educational systems.
 - Using SW-based contexts for personalization of e-learning applications.
2. Session on Semantic Grid Architectures and e-Learning Services:
 - Semantic Grid architectures and systems for distributed intelligent e-learning.
 - Models and tools for the semantic annotation of e-learning services.
 - Automatic composition of semantically described services and processes.
 - Pedagogical approaches and learning models for exploiting the potential of distributed and Grid technologies for e-learning.
 - Application scenarios for dynamic composition of distributed learning services using AIED and GRID technologies and techniques.

The workshop features a keynote talk “Inside a theory-aware and standards-compliant authoring system” by Riichiro Mizoguchi.

July, 2007
Darina Dicheva, Riichiro Mizoguchi,
Nicola Capuano and Andreas Harrer

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SWEL web site:

<http://compsci.wssu.edu/iis/swel/swel07/swel07-aied07.html>

