Michele Missikoff, Antonio De Nicola, and Fulvio D'Antonio (Editors)

EMOI - INTEROP'06

Open INTEROP Workshop on
"Enterprise Modelling and Ontologies for Interoperability"

Workshop at

CAiSE'06

The 18th Conference on
Advanced Information Systems Engineering
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EMOI - INTEROP'06 Workshop Organization

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Organization

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Preface

This volume collects the papers of the Third Open INTEROP Workshop on Enterprise Modeling and Ontologies for Interoperability – EMOI 2006, held in Luxembourg, on 5 and 6 June 2006. The workshop is promoted and supported by INTEROP, a Network of Excellence of the 6th Framework Program of the European Community, aimed at creating a Europe-wide research network on the themes supporting solutions for enterprise interoperability, from the technological, to the methodological, organizational, and cultural perspectives.

This third edition of EMOI Workshop series capitalizes on the experience of the two previous editions, confirming the validity of its mission and scope, but at the same time refining the scientific organization and the addressed topics. As for the latter, it is possible to see the steps forward of the main research directions, as documented by the papers included in these Proceedings. We believe that a workshop should be able to present a wealth of innovative ideas, even if sometimes in a preliminary form, to allow early results to be exposed and debated. Along this line, we believe that EMOI 2006 will be profitable for the researchers and practitioners facing the considerable problems still open, specially when interoperability is addressed not only at technological level, but together with semantics and enterprise modeling.

World-class competitiveness of European enterprises, including SMEs, will strongly depend, in the future, on their ability to massively and rapidly concretise on networked dynamic organisations. New Technologies and Methodologies for Interoperability, within and between enterprises, have to emerge to radically solve the recurrent difficulties - largely due to the lack of conceptual approaches - encountered to structure and interlink enterprises' systems (information, decision, action, production).

Today, research on interoperability of enterprise applications does not exist as a defined discipline. INTEROP has entered in its third year of activities, focusing on the integration among the three key thematic areas:

- **Ontology** to identify interoperability semantics in application domains and enterprises
- **Enterprise Modelling** to define interoperability requirements and models
- **Architectures and Enabling technologies** to provide advanced implementation frameworks for interoperability.

Within this frame, we are confident that the Third Open EMOI-INTEROP Workshop, co-located in Luxembourg with CAiSE'06, will be an event capable of providing interesting suggestions, and an opportunity for the participants to fruitfully exchange interesting research problems and, sometimes, solutions.

Main topics

The topics of the workshop are mainly those coming from the three research domains indicated above: Enterprise Modeling, Ontologies and the modeling issues related to

Architectures and Platforms, in the perspective of interoperability among Enterprise Software Applications (ESA).

The addressed topics belong to the main themes of the CAiSE conference, in the light and with the specificity of the workshop: Enterprise Modeling and Ontologies for Interoperability.

The CfP invited papers addressing (but not exclusively) the following topics:
- Ontology languages and reasoning for interoperability
- Ontology management for interoperable systems
- Ontology-based Search and Discovery of digital resources
- Practical impact of ontologies on ESA interoperability
- Ontology interoperability (i.e., mapping, transformation, fusion, …)
- Requirements Engineering for ontologies, and enterprise applications
- Methodologies, Models, and Tools for ontology building
- Use of ontologies in enterprise and software application modelling
- Ontologies and Service Oriented Architectures
- Ontologies and Model Driven Development of enterprise software applications
- Enterprise Modelling Methods and Tools, in light of achieving interoperability
- Interoperable Inter-enterprise Workflow Systems
- Knowledge Management, Metadata and Ontologies
- Ontology-based semantic annotation
- Enterprise Application Analysis and semantic divergence detection
- Languages and Protocols for ontology-based interoperability
- Semantic Web and its impact to interoperability

Organization

The workshop covers two days programme, giving sufficient space for a wide and open debate on new, emerging ideas to take place in the cross-fertilizing area of ontology, enterprise and software applications modelling. The workshop is organised in five sessions, suitably balanced, with different aims:
- Keynote session
- Tutorial session: that will consist of one presentation focused on the key topic of Model Transformation, in the light of Interoperability
- Full papers session, organized with highly interactive style
- Poster session
- Open concluding session, for an open debriefing on the Workshop

In concluding, I wish to remind that the Workshop had an important support from the NoE INTEROP, its Governing Committee, and in particular Martin Zelm and Hervé Panetto, leaders of WP11-Dissemination. Furthermore, I wish to acknowledge a particular thanking to Michaël Petit (University of Namur, Belgium) and Thibaud Latour (Public Research Centre Henri Tudor, Luxembourg), who strongly supported us, as Workshops Chairs, in all the preliminary phases and made a wonderful job for the success of the event.

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Michele Missikoff
Steering Committee Chair

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