Michele Missikoff

EMOI - INTEROP'04
Open INTEROP Workshop on
"Enterprise Modelling and Ontologies for Interoperability"

Workshop at

CAiSE'04

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Advanced Information Systems Engineering
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EMOI - INTEROP'04 Workshop Organization

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Preface

This volume collects the papers of the First INTEROP Open Workshop on Enterprise Modeling and Ontologies for Interoperability – EMOI 2004, held in Riga (Latvia), on 7 and 8 June 2004. The INTEROP-EMOI Open Workshop, co-located with CAiSE'04, has been organised within the INTEROP Network of Excellence, activated within the 6th Framework Programme of the European Community.

The aim of INTEROP is the creation of a Europe-wide research network on the themes supporting solutions for enterprise interoperability, from the technological, to methodological, organizational, and cultural perspectives.

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, that has been launched as a result of IST Thematic Network IDEAS, the roadmap for interoperability research, emphasises the need for integrating three key thematic areas:

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

Within this frame, the INTEROP-EMOI Open Workshop has been conceived and organised. It has a double nature: firstly, it is an open event where on going research on the above areas, with a special focus on modelling for interoperability, are presented and confronted; secondly, it has reserved a space for the presentation of activities carried out within the INTEROP NoE, and in particular for the research areas of Enterprise Modelling and Ontologies

Main topics

The topics of the workshop are mainly those coming from the promoting Workpackages of the INTEROP Network of Excellence, that is:

WP 1: Knowledge map for Enterprise Modeling, Ontology, Architecture and Platform for interoperability

WP 5: Common Enterprise Modelling Framework-UEML V2.0

WP 8: Ontology-based integration of Enterprise Modelling and Architecture & Platforms

Furthermore, emphasizing that this is an Open Workshop, external contributions have been invited, addressing the main theme of the CAiSE conference, in the light and

with the specificity of the workshop: Enterprise Modeling and Ontologies for Interoperability.

The CfP have invited papers addressing (but not exclusively) the following topics:
- Requirements Engineering for ontologies
- Methodologies, Models, and Tools for ontology building
- 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

Close to fifty papers (including both full and short ones) were submitted, allowing the Scientific Committee to build a very interesting scientific programme.

Organization

   The workshop covers two days, allowing a wide and open debate on new, emerging ideas to take place in the cross-fertilizing area of ontology and enterprise modelling. The workshop is organised in four sections, suitably balanced, with different aims:
- Tutorial session: that will consist of two presentations focused on Ontologies and Enterprise Modelling
- Knowledge Café: that consists in four tables where specific topics are discussed and elaborated within a free, informal setting
- Poster session
- Open discussion on the INTEROP NoE

In concluding, I wish remind that the Worksop had an important support of INTEROP and its Governing Committee. Furthermore, I wish to acknowledge a particular thanking to Michela Collacchi, Antonio De Nicola and Federica Schiappelli who worked hard to support the scientific organization of the workshop.
Finally, a special thank to Marite Kirikova, who strongly supported us in all the preliminary phases and made a wonderful job for the success of the event.

                                        Michele Missikoff
                                        Scientific Committee Coordinator