Message from the VORTE 2010/MOST 2010 Workshop Co-chairs

This volume collects articles presented at the 2010 edition of the Joint International Workshop on Vocabularies, Ontologies and Rules for The Enterprise (VORTE) – Metamodels, Ontologies and Semantic Technologies (MOST). The joint workshop was held this year in the context of the 14th IEEE International Conference on Enterprise Computing (EDOC 2010), in Vitória, Espírito Santo, Brazil.

VORTE 2010 is the fifth edition of this workshop associated with the EDOC conference series that intends to bring together researchers and practitioners in areas such as philosophical ontology, enterprise modelling, information systems, semantic web, model-driven engineering, business rules, and business process management. The goal of the workshop is to discuss the role that (foundational and domain) ontologies/vocabularies and business rules play in the conceptual design and implementation of next generation enterprise solutions.

MOST was held for the first time during the 28th International Conference on Conceptual Modeling (ER’2009) and it was created as the unification of two existing workshops: (i) Workshop on Ontologies and Metamodels in Software and Data Engineering (WOMSDE) – organized since 2006 for three consecutive editions; (ii) Workshop on Ontologies and Applications (WONTO) – organized since 2005 also in three editions. Hence, MOST 2010 can also be seen as a 5th edition of these joint scientific fora.

For this edition, we have counted with 29 submissions from Australia, Brazil, Finland, Germany, Norway, Portugal, The Netherlands and the United Kingdom. A total of 21 of these submissions have been originally sent directly to the workshop; the remaining 8 of them, have been rolled out from the main conference for consideration at the workshop, i.e., these were papers that had their merit recognized by the EDOC program committee but that could not be accommodated in the general program.

These proposals were carefully reviewed by the members of our international program committee such that (with one single exception) papers received 3 or (half of the times) 4 detailed reviews. After this process, 13 articles were chosen for presentation at the workshop, and have been organized in the following five sessions.

The first session entitled Formal Aspects in Representing Semantics is constituted by the papers: (1) A Symbol Grounding Model for Semantic Interpretation of 2-D Line Charts (by Sandro Rama Fiorini, Mara Abel and Claiton M. S. Scherer); (2) On the Representation of Temporally Changing Information in OWL (by Veruska Zamborlini and Giancarlo Guizzardi), and (3) A Meta-Ontology Approach for Representing Vague-Linguistic Terms and Fuzzy Rules for Classification in Ontologies (by Cristiane Yaguinuma, Marilde Santos, Heloisa de Arruda Camargo and Tatiane M. Nogueira).

The second session entitled Ontology Engineering comprises the articles: (4) Utility Evaluation of Tools for Collaborative Development and Maintenance of Ontologies (by Alex Norta, Roman Yangarber and Lauri Carlson); (5) A Linguistic Approach to Conceptual Modeling with Semantic Types and OntoUML (Lucia Castro, Fernanda Araujo Baiano and Giancarlo Guizzardi), and (6) Conceptual maps as the first step in an ontology construction method (Rodrigo Rizzi Starr and Jose Maria Parente de Oliveira).

A third session entitled Ontology Engineering was composed of the following contributions: (7) Development Approach for Modeling Biological Ontologies (by Daniele Palazzi, Ely Edison Matos, Fernanda Campos and Regina Braga), and (8) An Infrastructure for Managing Semantic Documents (by Lucas de Oliveira Arantes and Ricardo Falbo).
Furthermore, and in line with the VORTE tradition, the workshop also contemplates two sessions discussing the relation between Ontology and Enterprise Modeling. The first of these contains the papers: (9) Towards an Ontology for Automating Collaborative Business Processes (by Bahareh Rahmanzadeh Heravi, David Bell, Mark Lycett and Stephen D. Green), and (10) Conceptual Models for Crosscutting Aspects in Enterprise Architecture Modeling (by Sabine Buckl, Florian Matthes and Christian Schweda). The second one contains the following: (11) An Ontology-Based Semantic Foundation for Organizational Structure Modeling in the ARIS Method (by Paulo Sérgio Santos Jr., João Paulo Almeida and Giancarlo Guizzardi); (12) A Platform for Interoperable Domain-Specific Enterprise Modelling (by Andreas Opdahl), and (13) A Well-founded Software Process Behavior Ontology to Support Business Goals Monitoring in High Maturity Software Organizations (Monalessa P. Barcellos, Ricardo Falbo and Ana Regina Rocha).

Completing the workshop program, we have two renowned keynote speakers. We are grateful to Benjamin Grosof (Vulcan Inc., USA), who being a pioneer in semantic rule technology, kindly accepted to present a tutorial entitled “Semantic Rules used for and with Ontologies”. His tutorial discusses fundamental concepts and theories underlying key semantic rule standards as well as existing and potential applications of this technology. Moreover, we express our gratitude to Dragan Gasevic (Athabasca University, Canada) for accepting to share his vision and experience in the interconnection between Model-Driven Technology, Rule Modeling and Ontology Engineering.

We thank the members of our program committee: Mara Abel, Colin Atkinson, Christoph Bussler, Maria Luiza Campos, Oscar Corcho, Jens Dietrich, Vadim Ermolayev, Joerg Evermann, Roberta Ferrario, Luís Ferreira Pires, Fred Freitas, Aldo Gangemi, Dragan Gasevic, Siegfried Handschuh, Wolfgang Hesse, Rinke Hoekstra, Krzysztof Janowicz, Mustafa Jarrar, Riichiro Mizoguchi, Andreas Opdahl, Jeffrey Parsons, Oscar Pastor Lopez, Fabio Porto, Michael Rosemann, Daniel Schwabe, Renata Vieira and Renata Wasserman. We are grateful for their invaluable contribution with timely and professional reviews.

We would like to thank the authors who considered VORTE-MOST as a forum for presentation of their high quality work. Moreover, we are grateful to the support we received by the IAOA (International Association for Ontologies and Applications). Finally, we would like thank the VORTE Steering Committee (composed by Dragan Gasevic, Giancarlo Guizzardi and Gerd Wagner) and the EDOC 2010 organization committee for once more giving us the opportunity to organize the workshop in this fruitful scientific environment.

We hope you have a pleasant and productive event and a great time in the wonderful landscape of Vitória!

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