Message from the VORTE 2012 Workshop Chairs

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Abstract. This paper gives a brief overview of the International Workshop on Vocabularies, Ontologies and Rules for the Enterprise (VORTE) held at EDOC 2012. The paper introduces the Workshop research topics and presents the accepted papers.

Keywords – Ontologies, vocabularies, rules, business process modeling, enterprise modeling

I. INTRODUCTION

The VORTE series of workshops is devoted to the topics of vocabularies, ontologies and rules in the context of enterprise systems. These topics are key components for the development of flexible and standardized technologies for the advancement of enterprise computing. In fact, standardized models and more flexible technologies are needed to cope with the rapid organizational, policy, structural and market changes. They are also necessary for the advanced collaboration between various systems within one institution or among many collaborating parties, especially in the context of a networked economy. Such models and technologies include:

- Ontology-driven representations of products, services, functionalities, design, processes, know-how and upper-level ontologies for the enterprise.
- Conceptual and Enterprise Modeling techniques such as Business Process Modeling, Enterprise Architecture Modeling, Goal-based Modeling, etc.
- Business Rules formalisms and applications in the enterprise.
- Enterprise Semantic Interoperability through the Composition, Merging, Mapping and Alignment of Web services and Semantic services.

The VORTE series of workshops has been established in order to bring together researchers and practitioners that are looking into the topics of ontologies and rules in enterprise system development from different yet complementary perspectives. The major objective is to provide a research forum for exchanging ideas and results covering the use of ontologies and rules in various stages of the lifecycle of enterprise systems.

VORTE 2012 is the 7th workshop associated with the EDOC conference series that intends to bring together researchers and practitioners in areas such as ontology modeling, enterprise modeling, information systems, semantic web, model-driven engineering, business rules, and business process management. Examples of topics covered by VORTE research contributions include the development and adaptation of foundational, business and domain ontologies for the enterprise, the use of ontologies and rules in all aspects of enterprise modeling such as business process management and services, the enhancement of rules and services with formal semantics, and the evaluation of such systems and approaches. The workshop is also a forum for the discussion of ontology-based knowledge management issues, interoperability issues and ontology engineering issues, and covers various application domains relevant for organizations (such as e-government and e-commerce). The workshop also welcomes contributions on open linked data initiatives for the enterprise and empirical studies on the use of ontologies and rules in the enterprise system development lifecycle.

II. WORKSHOP PROGRAM

The VORTE 2012 workshop program includes six peer-reviewed papers. All the submitted papers were reviewed by at least three members of the program committee of EDOC 2012 or VORTE 2012. The final collection of the accepted papers includes:

- Open Reconcile: A Practical Open-sourced Ontology-driven Web service by Rebecca Lawler, Hui Yang, Kathryn Woods and Josh Kaminker;
- Using a Reference Domain Ontology for Developing a Software Measurement Strategy for High Maturity Organizations by Monalessa Barcellos, Ricardo Falbo and Ana Regina Rocha;
- Vocabulary Model Requirements for Production Rule Systems by Mukundan Agaram and Chang Liu;
- Semantic Mediation Bus(TM): An Ontology Based Runtime Infrastructure for Service Interoperability by Wen Zhu;
- Obligations and Delegation in the ODP Enterprise Language by Peter F. Linnington, Hiroshi Miyazaki and Antonio Vallecillo;
- Software Configuration Status Reporting based on Semantic Information Integration by Glauca Braga E Silva and Adilson Marques Da Cunha.

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III. WORKSHOP ORGANIZATION AND ACKNOWLEDGEMENTS

The international program committee consisted of the following members:
- Uwe Assmann, TU Dresden, Germany
- Colin Atkinson, University of Mannheim, Germany
- Ebrahim Bagheri, Athabasca University, Canada
- Luiz Olavo Bonino da Silva, BiZZDesign, The Netherlands
- Marco Brambilla, Politecnico di Milano, Italy
- Emanuele Bottazzi, Institute of Cognitive Sciences and Technologies, CNR, Trento, Italy
- Christoph Bussler, Merced Systems, Inc., USA
- Robert Colomb, The University of Queensland, Australia
- Oscar Corcho, Universidad Politécnica de Madrid, Spain
- Jens Dietrich, Massey University, New Zealand
- Sergio España, Polytechnic University of Valencia
- Joerg Evermann, Memorial University of Newfoundland, Canada
- Ricardo Falbo, Federal University of Espirito Santo, Brazil
- Adrian Giurca, Brandenburg University of Technology at Cottbus, Germany
- Guido Governatori, NICTA, Australia
- Pierre Grenon, European Bioinformatics Institute, Cambridge, UK
- Giancarlo Guizzardi, Federal University of Espirito Santo, Brazil
- Brian Henderson Sellers, University of Technology Sydney, Australia
- Heinrich Herre, University of Leipzig, Germany
- Florian Matthes, University of Munich, Germany
- Alex Norta, University of Helsinki, Finland
- Andreas Opdahl, University of Bergen, Norway
- Jeffrey Parsons, Memorial University of Newfoundland, Canada
- Adrian Paschke, Free University Berlin, Germany
- Luis Ferreira Pires, University of Twente, The Netherlands
- Florian Probst, SAP Research Darmstadt, Germany
- Christophe Roche, University of Savoie, France
- Michael Rosemann, Queensland University of Technology, Australia
- Csaba Veres, University of Bergen, Norway
- Gerd Wagner, Brandenburg University of Technology at Cottbus, Germany
- Kewen Wang, Griffith University, Australia
- Ron Weber, Monash University, Australia
- Hans Weigand, Faculty of Economics of Tilburg University, Netherlands

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