

Message from VORTE 2013 Workshop Chairs

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Abstract. *This preface provides a brief overview of the International Workshop on Vocabularies, Ontologies and Rules for the Enterprise (VORTE) held in conjunction with EDOC 2013. The preface 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 has been traditionally devoted to the topics of vocabularies, ontologies and rules in the context of enterprise systems and organizations. It has been established to bring together researchers and practitioners that consider the use of ontologies and rules in enterprise system development. The major objective is to provide a research forum for the discussion of both theoretical results and case studies on the use of ontologies and rules in various stages of the lifecycle of information systems.

Examples of topics covered by traditional 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 conceptual modeling and meta-modeling or architecture modeling, the development of business rules using 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 organizational learning, e-government and e-commerce).

This year, the workshop takes a broader view and does not only target enterprise systems, but also systems managing data on the Web. In fact, there is a need to exploit unstructured data in the enterprise and on the Web in general, as the majority of Web content and enterprise content remains unstructured. The challenge of managing, extracting and structuring data is common to both worlds, and solutions in one community will benefit the other. To reflect this broader view, the workshop features a *keynote speech on semantic annotation and entity linking*.

In future years, on top of the traditional topics mentioned above, we would like to see VORTE as a forum for the discussion of ontology-based knowledge management issues, initiatives related to semantic annotation, open linked data, information extraction, ontology learning and update and ontology-based knowledge management as well as empirical studies in these areas.

II. WORKSHOP PROGRAM

The VORTE 2013 workshop program includes four peer-reviewed papers. All the submitted papers were reviewed by three members of the program committee of EDOC 2013 and/or VORTE 2013.

The final collection of accepted papers includes:

- Marzieh Bakhshandeh, Goncalo Antunes, Rudolf Mayer, Jose Borbinha and Artur Caetano, *On the Use of Ontologies to Specify and Integrate Enterprise Architecture Models*: The paper describes a modular ontology for the integration of Enterprise Architecture Models;
- Filip Caron, Jan Vanthienen and Bart Baesens, *Business Rule Patterns for Analyzing the Operations in Process-Driven Enterprises*: The paper presents a method for formalizing business rules and checking their consistency using linear temporal logic and first order logic;
- Érica Souza, Ricardo Falbo and Nandamudi Vijaykumar, *Using Ontology Patterns for Building a Reference Software Testing Ontology*: The paper describes a methodology for building an ontology for software testing;
- Paul Brilliant Feuto Njonko, Sylviane Cardey, Peter Greenfield and Walid El Abed, *Domain Specific Language based on the SBVR Standard for Expressing Business Rules*: The paper introduces a Domain Specific Language (DSL) for expressing business rules in a business-friendly language.

As previously indicated, the workshop also features a keynote speech by Gabor Melli on *semantic annotation and entity linking*, which is an important topic for organizations in the digital age, and for the emergence of the Semantic Web.

III. WORKSHOP ORGANIZATION AND ACKNOWLEDGEMENTS

The three authors of this preface acted as chairs for this year's VORTE 2013 workshop. The international program committee of the workshop consisted of the following members:

- Andreas Lopdahl, University of Bergen
- Marco Rospocher, Fondazione Bruno Kessler
- Hans Weigand, Tilburg University
- Luis Ferreira Pires, University of Twente
- Chiara Ghidini, FBK-irst
- Marco Brambilla, Politecnico di Milano
- Adrian Giurca, BTU Cottbus
- Sergio España, Universitat Politècnica de València
- Florian Probst, SAP Research
- Ricardo Falbo, Universidade Federal do Espírito Santo
- Joerg Evermann, Memorial University of Newfoundland
- Oscar Corcho, Universidad Politécnica de Madrid

- Emanuele Bottazzi, ISTC-CNR
- Csaba Veres, UiB
- Christoph Bussler, Analytica, Inc.
- Jeffrey Parsons, Memorial University of Newfoundland
- Florian Matthes, Technische Universität München
- Christophe Roche, Equipe Condillac, Université de Savoie
- Giancarlo Guizzardi, NEMO/Federal University of Espirito Santo (UFES)
- Brian Henderson-Sellers, University of Technology, Sydney
- Guido Governatori, NICTA
- Peter Green, University of Queensland
- Faezeh Ensan, Athabasca University

- Pierre Grenon, EMBL-EBI

- Michel Gagnon, École Polytechnique de Montréal

We would like to take the opportunity to thank all the program committee members who spent their valuable time in reviewing the papers and helped us with their expertise in the selection process. We very much appreciated the work of all the authors who submitted their work to the workshop.

We are also very grateful to the steering committee of the workshop series, Giancarlo Guizzardi, Gerd Wagner and Dragan Gasevic and to the organizers of the EDOC 2013 conference for their help and support during the entire process of the workshop organization.