

LREC12 workshop

ColabTKR 2012 - Terminology and Knowledge Representation

Linguistics and ontology studies have a long record of fruitful cooperation. Cross-research in areas such as computational linguistics, natural language processing, information retrieval and ontology development, maintenance and integration have produced a wealth of multidisciplinary theories, methods, models and tools (Roche, 2008) (Staab, 2008) (Pereira et al. 2009) (Costa, 2006). More specifically, the relationship between the lexicon (lexical approaches and resources) and ontology development methods and tools, have been recently well explored in research (Huang et al, 2010). On the contrary, the relationship between terminology and ontology studies, in particular in what concerns to the initial phases of ontology development, has not received so much attention from the scientific communities involved. On the other side, in diverse professional areas, new challenges are appearing related with information and knowledge management in highly specialised technical domains, under tightly constrained time requirements, unfolding in collaborative networking contexts. Short-term collaborative networking between individuals, groups and organisations, is recognised by researchers and practitioners as possible solution to cope with an increasingly complex social and economic business environment. Moreover, the current demand for continuous innovation leads to an higher heterogeneity in the technical and scientific domains simultaneously involved in collaborative projects and activities (e.g involving SMEs and research centres) (Camarinha-Matos, 2006). Managing information and knowledge in this context places new and interesting challenges to terminology and knowledge representation, particularly when these challenges are seen from an integrated terminology/knowledge representation perspective.

Terminological or ontological approaches alone are not likely to be enough in answering to the needs of precision and detail of the specialised technical domains, as much as the research efforts of articulated terminology/ontology approaches are likely to be inadequate in terms of the required resources (time and persons). Thus, these challenges call for more than the setup and configuration of common terminological or ontological resources, particularly when considering the usually accepted time-frames for developing semantic and terminological artifacts. Effective ways to collaboratively construct shared conceptualisations by the means of negotiation and representational artifacts, such as semi-formal ontologies, are then required.

Topics of interest

This workshop intends to join, under a multi-disciplinary tent, specialists in terminology, information/knowledge management, ontology development, and collaboration processes, to debate the interplay between terminology and knowledge representation methods and techniques in contexts of collaborative work. Papers are invited on, but not limited to, the following topics:

- · The interplay between terminology and conceptualization processes
- · Interfaces between terminology work and ontology development/maintenance
- Collaborative processes in terminology work
- Collaborative conceptualization processes and representations of knowledge
- · Conceptualization processes and semi-formal ontologies
- · Cognitive semantics and semi-formal ontologies
- · Knowledge organisation systems and collaboration
- · Modelling networks of actors and semantic networks (socio-semantic networks)
- · Theory, methods and tools for conceptual negotiation
- · Using multimodal corpora for semi-formal ontology development
- · Design and management of semi-formal ontology libraries
- Using terminological resources for semi-formal ontology development
- Term extraction and validation in domain-dependent, time-constrained applications
- Terminological approaches to support the identification of conceptual relations
- The role of conceptual relations in the development of semi-formal ontologies

Type of submission

Extended abstract (1500-2000 words)

Extended abstracts must be submitted in https://www.softconf.com/lrec2012/TermKnowledge2012/

LRE map

When submitting a paper through the START page, authors will be kindly asked to provide relevant information about the resources that have been used for the work described in their paper or that are the outcome of their research. For further information on this initiative, please refer to http://www.lrec-conf.org/lrec2012/?LRE-Map-2012. Authors will also be asked to contribute to the Language Library, the new initiative of LREC2012.

Important dates

Submission deadline: 29FEB12
Acceptance notification: 12MAR12
Camera ready full paper: 2ABR12

· Workshop date: 22MAY12, afternoon session

Organizing Committee

António Lucas Soares (als@fe.up.pt) - University of Porto and INESC Porto, Portugal Rute Costa (rute.costa@fcsh.unl.pt) - New University of Lisbon, Portugal Carla Pereira (cpereira@estgf.ipp.pt) - IPP/ESTGF and INESC Porto, Portugal Alessandro Oltramari (oltramale@gmail.com) - Carnegie-Mellon University, USA Christophe Roche (christophe.roche@univ-savoie.fr) - University of Savoie, France Anita Nuopponen (atn@UWasa.fi) - University of Vaasa, Finland

Programme Committee

Gerhard Budin - University of Vienna

Chiara Ghidini - Bruno Kessler Foundation (FBK) - Trento, Italy

Guadalupe Aguado de Cea - Universidad Politécnica de Madrid

Hanne ErdmanThomsen - Copenhagen Business School

Mustafa Jarrar - University of Birzeit, Palestine

António Lucas Soares - University of Porto and INESC Porto, Portugal

Rute Costa - Universidade Nova de Lisboa, Portugal

Carla Sofia Pereira - Polytechnic Institute of Porto and INESC Porto, Portugal)

Alessandro Oltramari - Carnegie-Mellon University, USA

Christophe Roche - University of Savoie, France

Anita Nuopponen - University fo Vaasa, Finland

Piek Vossen - VU University Amsterdam, Netherlands

References

Chu-Ren Huang, Nicoletta Calzolari, Aldo Gangemi, Alessandro Lenci, Alessandro Oltramari, and Laurent Prévot (eds.). 2010. Ontology and the Lexicon: A Natural Language Processing Perspective. Cambridge University Press.

Roche, C. 2008. Terminologie & Ontologie: Théories et Applications. Actes de la deuxième conférence TOTh – Annecy-5 et 6 juin.

Staab, S. 2008. On understanding the collaborative construction of conceptualisations. International and Interdisciplinary Conference "Processing Text -Technological Resources" at the Center for Interdisciplinary Research, Bielefeld University, 13-15 March.

Pereira, C.; Sousa, C.; Soares, A. 2009. A socio-semantic approach to collaborative domain conceptualization. On the Move to Meaningful Internet Systems: OTM 2009 Workshops, Lecture Notes in Computer Science, Springer Berlin / Heidelberg.

Costa, R. 2006. Terminology, Corpus Linguistics and Ontology, Constrastive Studies and Valency. Studies in Honor of Hans Ulrich Boas. Petra C. Steiner, Hans C. Boas. Stefan Scheirholz [eds.]. Berlin – Bern: Peter Lang Verlag.

Camarinha-Matos, L. 2006. Collaborative networks in industry – Trends and foundations. InProc. of DET'06 - 3rd International CIRP Conference in Digital Enterprise Technology.

Nuopponen, A. 2011. Methods of concept analysis - tools for systematic concept analysis (part 3 of 3). In: LSP, professional communication, knowledge management and cognition. http://rauli.cbs.dk/index.php/lspcog/index