



LREC12 workshop

22 May 2012 (afternoon session)

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 a 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: 1FEB12
- Acceptance notification: 1MAR12
- Camera ready full paper: 30MAR12
- Workshop date: 22MAY12, afternoon session

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