Workshop on Methods, Models and Technology for Semantic-driven Knowledge Building (MTSK 2012)

International workshop co-located with:

The 8th International Conference on SIGNAL IMAGE TECHNOLOGY & INTERNET BASED SYSTEMS, (SITIS 2012), Sorrento - Naples, Italy, 25-29 November 2012

Scope of the Workshop

Web 2.0 paradigm has shifted the role of users from passive audience to participatory users. Growing number of users are taking advantage of collaborative and interactive features (e.g., blog, wiki, RSS, and so on) in order to share their own contents with each other (i.e., user-generated content). Specifically, the adoption of Web 2.0 tools in the organizational context (i.e., Enterprise 2.0) changes the roadmap of Knowledge Management. Success of Enterprise 2.0 leads to the availability of large amount of information that is still targeted to the human consumption. This stresses the activities of Knowledge Management, especially in large organisations. So, nowadays Knowledge Management is still a huge challenge.

Semantic Web vision could address this challenge. In particular, Semantic Web standards enabling the creation of machine-understandable knowledge. Ontologies provide a common knowledge layer that could be exploited to bridge the gap between tacit and explicit knowledge. Specifically, ontologies can offer a consistent access point to anything that an organization does enabling opportunities to find relevant information. On one hand, well-known ontologies (e.g., FOAF, SIOC, etc.) could be reused to represent enterprise artefacts. On the other hand, organizational domain ontologies (e.g., controlled vocabulary, taxonomies, and so on) have to be developed and kept up-to-date. In this way, by exploiting ontologies when a project belongs to certain research topics, we can infer that also the publications of the project relate to the same topic, or to the employees that have skills relevant to that project, and so on. Nevertheless, Semantic Web tools are still under development and ontologies learning and maintenance require a considerable effort.

Although Semantic Web provides enabling features to face with Knowledge Management challenge, there are many research opportunities that should be addressed. Firstly, there is a need to fill the gap combining Web 2.0 features such as collaboration with semantic technologies. Next, there are several needs to support knowledge life cycle and to provide intelligence service for knowledge discovery. Finally, it is important to define intelligent methodologies able to prepare and maintain up-to-dated organizational domain ontologies.

In particular, the aim of this session is to provide a forum to disseminate and discuss methods, models, and technologies to address a new generation of knowledge management systems. The workshop, starting with

current issues of the on-going EU-funded IP research project "ARISTOTELE" (http://www.aristotele-ip.eu), intends to be a forum to exchange innovative results considering, but not limited to, these topics of interest:

- Ontologies for:
    - Knowledge Representation
    - Knowledge Management
    - Knowledge Extraction
- Ontology Matching
- Ontology Merging
- Semantic Social Networks
- World Wide Wisdom Web (W4)
- Information Retrieval
- Web Searching
- Semantic Grids
- Semantic Social Networks
- Soft-computing for Web Intelligence
- Ontological Agents
- Clustering for Web Processing
- Formal Concepts Analysis for Web Application
- Collective Knowledge

Important Dates

Submission deadline: September 15, 2012 (midnight, Pacific Standard Time)
Authors notification: October 1, 2012
Camera-ready: October 15, 2012

Submission Guidelines

All submissions should be in **IEEE conference style** and PDF format. Papers may not exceed 8 pages. Two extra pages can be purchased. Paper submission will only be online via **Easy Chair** (http://www.easychair.org/conferences/?conf=sitis2012).

Publication

Accepted papers will be included in the conference proceedings and published by IEEE Computer Society and referenced in IEEE Xplore and major indexes. The proceedings will be available at the conference. Extended version of selected accepted papers will be considered for publication in major journals.

Registration

At least one author of each accepted paper must register for the workshop. Registration must be done on the SITIS website at the time when the author sends the camera-ready copy of the accepted paper to the

workshop chair. Workshop registration fee is determined by SITIS. A single registration for the workshop or the conference allows to attend both events.

Workshop co-Chairs:

- Vincenzo Loia, University of Salerno, Italy
- Saverio Salerno, University of Salerno, Italy

Program Chair

- Pierluigi Ritrovato, University of Salerno, Italy

Program Committee

- Antonina Dattolo, University of Udine, Italy
- Ernesto Damiani, Università degli Studi di Milano, Italy
- Matteo Gaeta, University of Salerno, Italy
- Hani Hagras, University of Essex, UK
- Chang-Shing Lee, National University of Tainan, Taiwan
- Ronald Maier, University of Innsbruck, Austria
- Marek Reformat, University of Alberta, Canada
- Christian M. Stracke, University of Duisburg-Essen, Germany

If you have any queries, please email at ritrovato@diiie.unisa.it and we will be happy to address them.