
Welcome!



KW4ED

Workshop on **Knowledge Management and Semantic Web for Engineering Design**

28th October 2007

Whistler, British Columbia, Canada

Supported by:

Semantic Virtual Engineering Environment for Product Design

www.sevenpro.org



Contents/Purpose of the workshop

- **Speakers:**
 - Two selected papers by program committee
 - Two keynote talks
 - Three SevenPro contributions
 - **Similar to prior BOEMIE experience in EKAW'06**
 - **Maximize reuse of experience**
 - **Discuss open questions**
 - **Create new collaborations among participants**
 - **Propose best practices**
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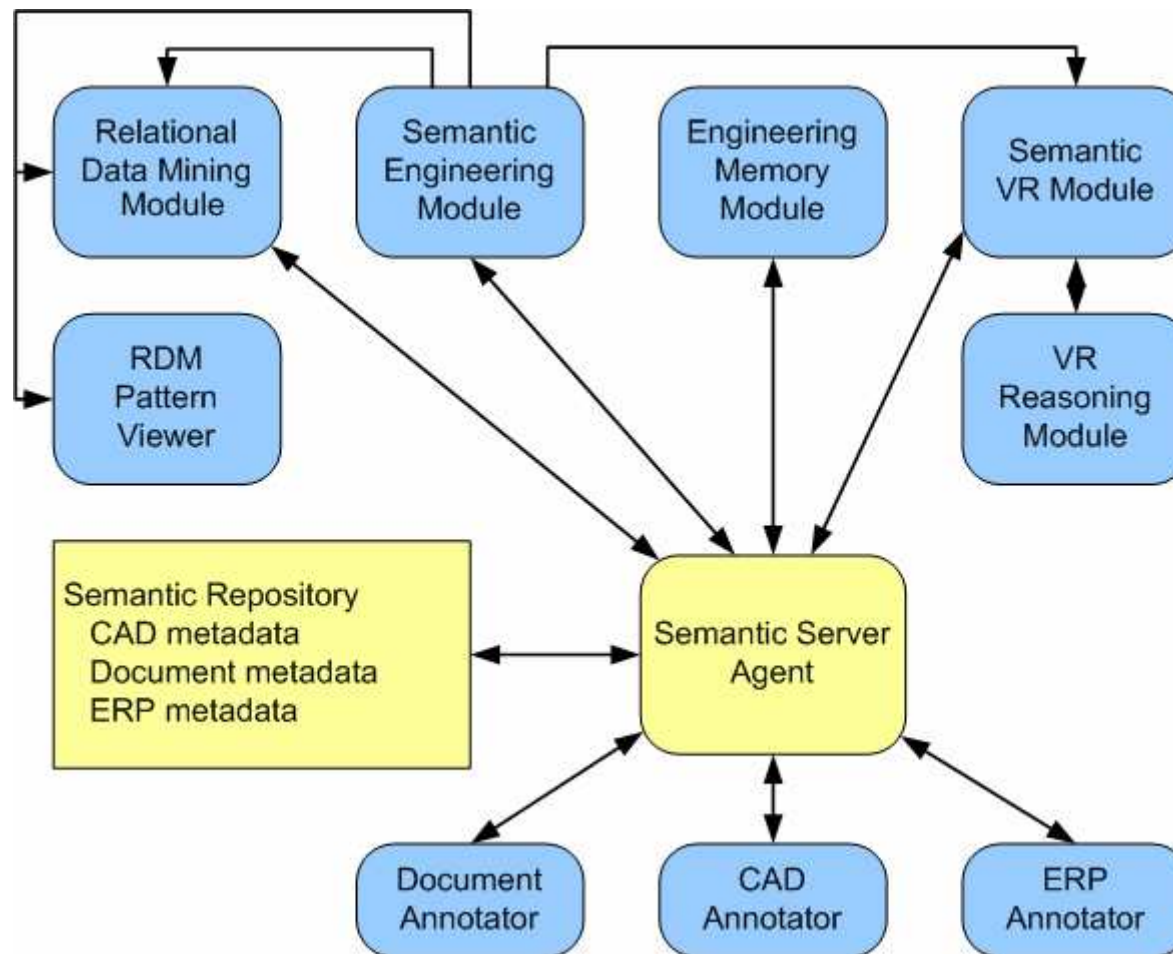
Program (1/2)

- **Introduction to SEVENPRO EU-IST Project**
 - **Session #1 Knowledge Representation and Semantic Web**
 - 2:15 - 2:35 Bruno Antunes, Nuno Seco, and Paul Gomes (University of Coimbra, Portugal)
Knowledge Acquisition and Management using Semantic Web Technologies: An Application in Software Development
 - 2:35 - 3:00 Hacene Cherfi, Olivier Corby, and Cyril Masia-Tissot
RDF(S) and SPARQL Expressiveness in Engineering Design Patterns
 - **Session #2 Multimedia Analysis and Virtual Reality**
 - 3:00 - 3:45 **Keynote Speaker: Ioannis Kompatsiaris**
Centre for Research and Technology Hellas Themi-Thessaloniki, Greece
Ontologies and Machine Learning for Semantic Multimedia Analysis
 - 3:45 - 4:10 Takayuki Baba, Susumu Endo, Shuichi Shiitani, Yusuke Uehara, Daiki Masumoto, and Shigemi Nagata (Fujitsu Laboratories Ltd, Japan)
An Interactive Image Mining System for Engineering Design and Manufacture
 - 4:10 - 4:35 Matthias Strauchmann, Tina Haase, Emmanuel Jamin, Hacene Cherfi, Mikel Renteria, and Cyril Masia-Tissot
Coaction of Semantic Technology and Virtual Reality in an Integrated Engineering Environment
 - 4:35 - 4:50 **Coffee break**
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Program (2/2)

- **Session #3** Text Mining and Data Mining
- 4:50 - 5:35 **Keynote Speaker: Paul Buitelaar**
DFKI GmbH, Language Technology Lab & Competence Center
Semantic Web - Saarbrücken, Germany
Text Mining Support in Semantic Metadata Extraction
- 5:35 - 6:00 Monika Zakova, Filip Zelezny, Petr Kremen, Cyril Masia-Tissot, and Nada Lavrac
Relational Data Mining through Propositionalization and Subsequent Propositional Learning for Semantic Virtual Engineering
- 6:00 - 6:30 **Open session** Panel Discussion "Present and future of Semantic Knowledge in Engineering Design"

SEVENPRO approach and architecture



SEVENPRO's partners



Country: Spain

Role: Coordinator

SEMANTIC SYSTEMS S.A.



Country: France | Role: Research

Institut National de Recherche en
Informatique et Automatique (INRIA)



Fraunhofer
Institut
Fabrikbetrieb
und -automatisierung

Country: Germany | Role: Research

Fraunhofer Institute for Factory Operation
and Automation (IFF)



Country: Czech Republic | Role: Research

Czech Technical University in Prague

LIVING SOLIDS
interactive virtual reality

Country: Germany | Role: Industry

LIVING SOLIDS GmbH



Country: Italy | Role: User

Italdesign Giugiaro S.p.A.



Country: Spain | Role: User

Fundiciones del Estanda, S.A.

How important? Learn more...

- The Semantic Web Vision
 - Jorge Cardoso (University of Madeira, Portugal)
“SW comes from research to be used for business”
- American Weather Forecast companies agreed on Ontology of Weather