

# Aldo Gangemi

## SEMINARIO UPM

### Tutorial\_on\_Computational\_Ontologies

Goal:

To disseminate best practices of ontology design. To make users familiar with available tools for ontology editing.

Brief description

A 20 hours course on computational ontology.

Resources:

<http://ontologydesignpatterns.org/wiki/images/8/8b/ComputationalOntologiesD11.pdf>

- \* <http://ontologydesignpatterns.org/wiki/images/d/d3/Languages.pdf>
- \* <http://ontologydesignpatterns.org/wiki/images/0/0b/OntologyAndData.pdf>
- \* <http://ontologydesignpatterns.org/wiki/images/8/8a/PatternBasedDesign.pdf>
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<http://ontologydesignpatterns.org/wiki/images/2/20/ContentDesignPatterns.pdf>

<http://ontologydesignpatterns.org/wiki/images/4/4e/ReengineeringResources.pdf>

Exercises:

- \* NeOn 2008 Tutorial on Computational Ontologies/Music Industry Ontology
- \* NeOn 2008 Tutorial on Computational Ontologies/The male nurse union representative
- \* NeOn 2008 Tutorial on Computational Ontologies/Toys and Dolls

\* Course duration. 20 h.

Suggestions about equipment

During classes some tools for web ontology design will be used.

We suggest all students to download and install on their own laptop the following software:

- \* NeOn toolkit
- \* TopBraid Composer: this is a commercial tool, a trial version is available to download;
- \* Protégé 4.0 beta
- \* Swoop

Some References

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10. W3C Ontology Engineering and Patterns Task Force (OEP)
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13. Eva Blomqvist. Fully automatic construction of enterprise ontologies using design patterns: Initial method and first experiences. In Robert Meersman, Zahir Tari, Mohand-Said Hacid, John Mylopoulos, Barbara Pernici, Ozalp Babaoglu, Hans-Arno Jacobsen, Joseph P. Loyall, Michael Kifer, and Stefano Spaccapietra, editors, OTM Conferences (2), volume 3761 of Lecture Notes in Computer Science, pages 1314–1329. Springer, 2005.
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