



Rafael González-Cabero

1. Contact Info

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2. Brief presentation and scientific intereses

I'm a member of the Ontology Engineering Group of the UPM since 2002. Since the fall of 2003 I've been working on my PhD thesis *Modelo conceptual para el descubrimiento y la composición automática de Servicios de la Web Semántica* (Conceptual Model for automatic discovery and composition of Semantic Web Services). Obviously, my scientific interests are mainly targeted at my PhD thesis, they include:

- Semantic Web Services:
 - Automatic discovery.
 - (Semi)Automatic composition.
 - Mediation.
- Grid Services.
- Ontologies and Problem Solving Methods.
- Inference and reasoning with Semantic Web languages.
- Fuzzy Logic

3. Education

- From 1996 to 2003 (1996-2002 degree) Graduated in Computer Science from the Facultad de Informática, Universidad Politécnica de Madrid
- From fall 2003 PhD Grade *Ciencias de la Computación e Inteligencia Artificial* (Computer Science and Artificial Intelligence), at the UPM

4. Projects

- FP6 Knowledge Web network of excellence (FP6-507482)
- IST Esperanto project (IST-2001-34373). The tasks I realized in this project are:
 - ODEImport, a module for WebODE (ontological engineering workbench) that imports ontologies implemented in RDF(S), DAML+OIL and OWL.
 - ODEval, a module for WebODE that evaluates taxonomic errors inside ontologies implemented in RDF(S), DAML+OIL and OWL
 - SWSDesigner, a graphical semantic web services editor.
 - and I have also been involved in the integration of the modules from the different partners

5. Events participation

- OWL importer presentation in the *Workshop on OWL Implementation* 5th meeting of the OntoWeb SIG on *Ontology Language* at October 18th 2003 at Sanibel Island, Florida, USA.
- ESWS04 attended to the tutorials "Integration with Semantic Web Services" and "Human Language Technology for the Semantic Web". Heraklion (Greece). 10/05/2004 -12/05/2004
- Local Organizer and Student in the Second European Summer School on Ontological Engineering and the Semantic Web. Cercedilla (Spain) 19/07/2004 - 24/07/2004

6. Publications

1. *A Framework for Description, Composition, and Evaluation of Semantic Web Services*. Asunción Gómez-Pérez, Rafael González-Cabero, and Manuel Lama (2004). IEEE Intelligent Systems. Special Issue on Semantic Web Services.
2. *Development of Semantic Web Services at the Knowledge Level*. Asunción Gómez-Pérez, Rafael González-Cabero, and Manuel Lama (2004): European Conference on Web Services (ECOWS). Erfurt, Germany.
3. *A Framework for Design and Composition of Semantic Web Services* Asunción Gomez-Perez, Rafael Gonzalez-Cabero, and Manuel Lama 2004 AAAI Spring Symposium Series
4. *Odeval: A Tool For Evaluating RDF(S), DAML+OIL, and OWL Concept Taxonomies*. Óscar Corcho, Asunción Gómez-Pérez, Rafael González-Cabero and M. Carmen Suárez-Figueroa AIAI 2004, IFIP WG12.6 -- First IFIP Conference on Artificial Intelligence Applications and Innovations, Toulouse France August, 22-27, 2004, A conference as part of IFIP World Computer Congress (WCC2004)
5. *Deliverable 1.6. A survey on ontology-based applications* Proyecto: OntoWeb (IST-2001-29243) Ramos, J.A.; Gómez-Pérez, A.; Corcho, O.; López-Cima, A.; González-Cabero, R.; Leger, A.; Stutt, A.; Sure, Y.; Moench, E. Editor: Ramos, J.A. January 2004, pp. 33

7. Membership to organizations

- Ontology Engineering Group. Since October 2002.
- World Wide Web Consortium (W3C). Since January 2004

8. Technical Skills

- Programming languages
 - i. Programming languages: C, C++, Haskell, Prolog.
 - ii. HTML, XML, UML.
 - iii. Java
 1. J2EE: Servlets, JSPs, EJBs, etc... (J2EE 1.3 and J2EE1.4) and JMX
 2. XML and Databases: JAXP (SAX, DOM), JDBC.
 3. Interfaces and Graphics: Swing, Java2D, JGraph.
 - iv. Semantic Web Related
 1. Tools: Jess and Jena2.

2. Ontology Implementation Languages: OWL, RDF, RDF(S), DAML+OIL.
 3. Semantic Web Services and PSMs Languages: UPML, OCML and OWL-S.
 4. Protocols: OKBC
 - v. Web Services Related
 1. Languages: WSDL, SOAP.
 2. Java APIs: JAXR, JAXP-RPC, SAAJ.
- Operative Systems
 - i. Linux, Windows 9x, 2K, XP
 - Databases: SQL.
 - Development tools: JBuilder, ANT, JUnit.