

Juan Sequeda

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Research Interests

Database Integration using Semantic Web technologies. My current research focuses on automatically linking relational databases with the Semantic Web through ontology matching and machine learning. Databases Systems, Semantic Web, Ontologies, Linked Data, Knowledge Representation, Ontology Matching

Education

Ph.D. Computer Sciences University of Texas at Austin	Expected 2012
B.S. Computer Sciences University of Texas at Austin	2008
Systems and Computer Engineering Universidad del Valle - Cali, Colombia	2006

Experience

Research Assistant The University of Texas at Austin, Austin, Texas	Sept 2006 - present
<ul style="list-style-type: none">■ Integrating Relational Databases with the Semantic Web: this research attempts to provide an innovated approach to integrate data that resides in relational databases and link it with the Semantic Web. Our objective is to have semantic access to data in relational databases from Semantic Web query engines and linking data with other relational databases.■ Morphster Project: this project facilitates systematic biologist to create ontologies through the novel concept of Image Driven Ontology editing. My participation in this project has been in the creation of a web based image ontology browser tool and translations between OBO and OWL languages	
Lead Technical Architect Smartbridge GmbH, Zurich, Switzerland	Jan 2007 - present
<ul style="list-style-type: none">■ Designed, developed and coordinated a web-based project management system for temporal staff agencies which enables them to have online access to all their projects, staff planning, salaries, statistics and communication with employees. Interacted and communicated in a cross cultural environment between with the management team in Switzerland and the development team in Colombia.	

Awards

World Wide Web Conference Student Scholarship	2009
International Semantic Web Conference Travel Grant	2008
University of Texas Graduate School Diversity Fellowship	2008 - 2009
National Instruments Endowed Scholarship for Excellence	2007 - 2008
Intel Foundation Undergraduate Research Fellowship	2007

Publications

Conferences

- Sequeda, J.F. Garcia-Castro, A. Corcho, O. Trimizi, S.H. Miranker, D.P. (2009) Overcoming databases heterogeneity to facilitate social networks: the Colombian displaced population as a case study. To appear in Proceedings of World Wide Web Conference (WWW2009). Madrid, Spain

- Trimizi, S.H. Sequeda, J.F. Miranker, D.P. (2008) Translating SQL Applications to the Semantic Web. In Proceedings of the 19th International Database and Expert Systems Application Conference (DEXA2008). Turin, Italy

Workshops

- Sequeda, J.F. Trimizi, S.H. Miranker, D.P. (2007) SQL Databases are a Moving Target. Position Paper for W3C Workshop on RDF Access to Relational Databases. Cambridge, MA, USA
- Sequeda, J.F. Hurtado, D. (2006) Proposal of Ontology for Semantic Search in Research and Development Laboratories: OLID. In Proceedings of 4th International Seminar of Internet Technologies (SITI2006). Popayan, Colombia

Posters

- Sequeda, J.F. Trimizi, S.H. Miranker, D.P. (2008) A Bootstrapping Architecture for Integration of Relational Databases to the Semantic Web. Poster in 7th International Semantic Web Conference (ISWC2008). Karlsruhe, Germany
- Garcia-Castro, A. Norena, A. Betancourt, A. Garcia, L. Sequeda, J.F. (2008) CMAPS supporting the development of OWL Ontologies. Poster in 7th International Semantic Web Conference (ISWC2008). Karlsruhe, Germany

Technical Reports

- Sahoo, S. Halb, W. Hellmann, S. Idehen, K. Thibodeau, T. Auer, S. Sequeda, J. Ezzat, A. (2009) A Survey of Current Approaches for Mapping of Relational Databases to RDF
- Sequeda, J.F. Trimizi, S.H. Corcho, O. Miranker, D.P. (2009) Direct Mapping SQL Databases to the Semantic Web. Technical Report 09-04. The University of Texas at Austin, Department of Computer Sciences.
- Sequeda, J.F. (2008) On Direct Mapping for Integrating SQL Databases to the Semantic Web. Bachelors Thesis. Technical Report 08-09. The University of Texas at Austin, Department of Computer Sciences.

Services

- Invited Expert on the RDB2RDF Incubator Group of the World Wide Web Consortium (W3C)
- PC Member: Linked Data on the Web (LDOW2009), I-Semantics Conference 2009
- President of Empowering Leadership Alliance at UT Austin. Minority Computer Science Student Organization
- President of PorColombia – UT Chapter. Student Organization of Colombians at UT

Other

- Languages: English (native), Spanish (native), German (speak, read, write good), Swiss German
- Citizen of USA and Colombia