

# **CURRICULUM VITAE**

## **MIRKO ORSINI**

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# CURRICULUM VITAE

## References:

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Birthdate: April 12, 1977

Nationality: Italian

Language skills: Italian, English

## Education:

- “Laurea” **Degree in Computer Engineering (master degree)** at the “Università di Modena e Reggio Emilia”, Faculty of Engineering, Modena, Italy - October 27, 2004. Degree dissertation: “Interoperabilità tra ontologie eterogenee: i traduttori OWL - ODL<sub>3</sub>”, supervisor: prof. Sonia Bergamaschi.

## Current position:

- **PhD Student** (2<sup>nd</sup> year) at Doctorate School in “INFORMATION AND COMMUNICATION TECHNOLOGIES (ICT) - Computer Engineering and Science” (<http://www.ict.unimo.it>) at the “Università di Modena e Reggio Emilia”, Faculty of Engineering (since 2006). Tutor: prof. Domenico Beneventano, Università di Modena e Reggio Emilia, Co-Tutor: Prof. Felix Naumann - Humboldt University, Berlin.
- Three years young researcher contract for research activity on the MIUR research project **NeP4B (Networked Peers for Business)**, MIUR funded research project – FIRB 2005 (July 25, 2006 - now)

## RESEARCH ACTIVITIES

Since 2006, I'm a PhD student at Doctorate School in "INFORMATION AND COMMUNICATION TECHNOLOGIES (ICT) - Computer Engineering and Science" at the "Università di Modena e Reggio Emilia", Faculty of Engineering, Tutor: professor Domenico Beneventano.

I am a member of the DBGroup, database research group at the "Università di Modena e Reggio Emilia" (<http://www.dbgroup.unimo.it>) led by professor Sonia Bergamaschi.

My research activities are in the context of Data Integration Systems, Global Query Management and Semantic Web. My current research is devoted to integration, mapping and querying of ontologies.

My research activity is devoted to investigate the problem of "object fusion" in query processing over heterogeneous sources in a distributed framework (such, as an information integration system, peer-to-peer network) taking into account the object identification problem and the problem of inconsistent information among different sources.

The goal of my PhD thesis is to study a general framework for distributed query processing which takes into account the object fusion problem both in query formulation (by user preferences) and in query rewriting, execution and optimization.

Main Research topics:

- **Intelligent Information Integration**
- **Object Fusion**
- **Semantic Web**

## Project participation

I participated, as a member of the DBGROUP, in European and National Research Projects:

- **(2006-2007) NeP4B (Networked Peers for Business)**, MIUR funded research project – FIRB 2005 (2006-2008) (<http://www.dbgroup.unimo.it/nep4b>) coordinated by professor Sonia Bergamaschi
- **(2005-2006) STIL (Strumenti Telematici per l'Interoperabilità delle reti di imprese: Logistica digitale integrata per l'Emilia-Romagna)**, Emilia-Romagna research project (2005-2006) (<http://www.stil-project.org/>) coordinated by professor Domenico Ferrari
- **(2005-2006) WISDOM (Web Intelligent Search based on DOMain ontologies)**, MIUR co-funded research project (2005-2006) (<http://dbgroup.unimo.it/wisdom>) coordinated by professor Sonia Bergamaschi
- **(2004-2005) SEWASIE (SEmantic Web and AgentS in Integrated Economies)** - IST-2001-34825, EU IST research project (2002-2005) (<http://www.sewasie.org>) coordinated by professor Sonia Bergamaschi

## **Participations to national and international conferences and workshops:**

- EDBT Summer School on Database Technologies for Novel Applications (**8<sup>th</sup> EDBT Summer School**), September 3-7, 2007, Bozen-Bolzano, Italy
- Fifteenth Italian Symposium on Advanced Database Systems (**SEBD 2007**), 17-20 June, 2007, Torre Canne (Fasano, BR), Italy
- Workshops organized by the Doctorate School in “INFORMATION AND COMMUNICATION TECHNOLOGIES (ICT) - Computer Engineering and Science” (<http://www.ict.unimo.it>)
- PhD School on Data and Service Integration (**DASI'06**), 10-15 December, 2006, Bertinoro (Forlì), Italy
- Summer School on Multimedia Semantics - Analysis, Annotation, Retrieval and Applications (**SSMS 2006**), 4-8 September 2006, Chalkidiki, Greece
- Fourteenth Italian Symposium on Advanced Database Systems (**SEBD 2006**) 18-21 June, 2006, Portonovo, Italy
- Semantic Web Applications and Perspectives 2nd Italian Semantic Web Workshop (**SWAP 2005**) 14-16 December, 2005, Trento, Italy

## REVIEW ACTIVITIES

Mirko Orsini reviewed papers for International and National Conferences:

- Thirteenth Italian Symposium on Advanced Database Systems (**SEBD 2005**) 19-22 June, 2005, Bressanone, Italy
- Nineteenth International Joint Conference on Artificial Intelligence (**IJCAI 2005**) 30 July - 5 August 2005, Edinburg, Scotland
- 16th International Conference on Database and Expert Systems Applications (**DEXA 2005**) 22 - 26 August 2005 Copenhagen, Denmark
- The 2005 IEEE/WIC/ACM International Conference on Web Intelligence (**WI 2005**) September 19-22 2005, Compiègne, France
- 24th International Conference on Conceptual Modeling (**ER 2005**), 24 – 28 October 2005, Klagenfurt, Austria
- The 4th International Conference on Ontologies, DataBases and Applications of Semantics (**ODBASE 2005**) Oct 31 - Nov 4 2005, Agia Napa, Cyprus
- OnTheMove Federated Conferences and Workshops (**OTM 2005**), 31 Oct - 4 Nov 2005, Agia Napa, Cyprus
- Semantic Web Applications and Perspectives, 2nd Italian Semantic Web Workshop (**SWAP 2005**) 14-16 December 2005, Trento, Italy
- Fourteenth Italian Symposium on Advanced Database Systems (**SEBD 2006**) 18-21 June, 2006, Portonovo, Italy
- The 25th International Conference on Conceptual Modeling (**ER 2006**) 6–9 November, 2006, Tucson, Arizona, USA
- The 5th International Conference on Ontologies, DataBases, and Applications of Semantics (**ODBASE 2006**) Oct 29 - Nov 3, 2006, Montpellier, France
- 4th European Semantic Web Conference (**ESWC 2007**) 3-7 June, 2007, Innsbruck, Austria
- IEEE International Conference on Pervasive Services (**ICPS 2007**) July 15-20, 2007, Istanbul, Turkey
- 10th Congress of Italian Association for Artificial Intelligence (**AIIA 2007**) September 10-13, 2007, Rome, Italy
- 26th International Conference on Conceptual Modeling (**ER 2007**) 5-9 November, 2007, Auckland, New Zealand
- 6th international Semantic Web Conference & 2nd Asian Semantic Web Conference (**ISWC 2007 & ASWC 2007**) November 11-15, 2007, Busan, Korea
- The 6th International Conference on Ontologies, DataBases, and Applications of Semantics (**ODBASE 2007**) Nov 27-29, 2007, Vilamoura (Algarve), Portugal

- Semantic Web Applications and Perspectives, 4th Italian Semantic Web Workshop (**SWAP 2007**)  
18-20 December 2007, Bari, Italy

## **Other Activities**

**Collaboration to the activities of management of the review system** and assemblage of the electronic volume for the conference “Third International Workshop on Databases, Information Systems and Peer-to-Peer Computing (**DBISP2P 2005**)” held at VLDB 2005 31st International Conference on Very Large Data Bases Trondheim, Norway August 28-29, 2005.

## PUBLICATIONS

(<http://www.dbgroup.unimo.it>)

### International Journals (IJ)

- [IJ1] S. Bergamaschi, F. Guerra, M. Orsini, C. Sartori, **Extracting Relevant Attribute Values for Improved Search**, IEEE Internet Computing, special issue on Semantic-Web-Based Knowledge Management, vol. 11, no. 5, pp. 26-35, Sept/Oct, 2007

### International Conferences (IC)

- [IC1] D. Beneventano, S. Bergamaschi, S. Bruschi, F. Guerra, M. Orsini, M. Vincini, **Instances Navigation for querying integrated data from web-sites**, International Conference on Web Information Systems and Technologies (**WEBIST 2006**), Setúbal, Portugal, April 11-13, 2006
- [IC2] S. Bergamaschi, F. Guerra, M. Orsini, C. Sartori, **Relevant Values: new metadata to provide insight on attribute values at schema level**, In proceedings of the 9th International Conference on Enterprise Information Systems (**ICEIS 2007**), Funchal, Madeira - Portugal, June 12-16, 2007 (p.p. 274-279)
- [IC3] D. Beneventano, S. Bergamaschi, C. Nana Rodriguez, M. Orsini, M. Vincini, **Query Translation on Heterogeneous Sources in MOMIS Data Transformation Systems**. Third International Workshop on Database Interoperability (**InterDB 2007**). Held in conjunction with VLDB 2007 - 33rd International Conference on Very Large Data Bases. Vienna, Austria, September 24, 2007

### National Conferences (NC)

- [NC1] S. Bergamaschi, F. Guerra, M. Orsini, C. Sartori, **A new type of metadata for querying data integration systems**, Proceedings of the Fifteenth Italian Symposium on Advanced Database Systems (**SEBD 2007**), Torre Canne (Fasano, BR), Italy, 17-20 June, 2007 (p.p. 266-273)
- [NC2] S. Bergamaschi, F. Guerra, M. Orsini, C. Sartori, M. Vincini, **RELEVANT News: a semantic news feed aggregator**, 4th Workshop on Semantic Web Applications and Perspectives (**SWAP 2007**), Bari, Italy, December 18-20, 2007

### Technical Reports (TR)

- [TR1] D.Beneventano, S.Bergamaschi, P.Bouquet, D.Giacomuzzi, M.Orsini, **Definition of the language for specification of semantic mappings**. WISDOM Technical Report, December 2005
- [TR2] D.Beneventano, S.Bergamaschi, S.Bruschi, F.Guerra, M.Orsini, M.Vincini, **Prototype for adding a new information source to the domain ontology**. WISDOM Technical Report, December 2005
- [TR3] I.Bartolini, D.Beneventano, P.Ciaccia, A.Linari, F.Mandreoli, R.Martoglia, M.Orsini, M.Patella, W.Penzo, A.Proli, S.Rizzi, **Definition of the ontology-based query language and query processing techniques**. WISDOM Technical Report, February 2006

- [TR4] D.Beneventano, S.Bergamaschi, P.Bouquet, D.Giacomuzzi, F.Guerra, M.Orsini, M.Vincini, **Definition of the language and techniques for domain ontology specification. WISDOM** Technical Report, March 2006
- [TR5] A.Natali et al., **STIL-D02: Modelli di architettura e di dominio. STIL** Technical Report, April 2006
- [TR6] D.Beneventano, C.Aiello, D.Cerizza, D.Cerri, M.Comerio, F.de Paoli, F.Falchi, A.Ghioni, F.Guerra, A.Maurino, F.Mandreoli, R.Martoglia, M.Orsini, M.Palmonari, L.Po, S.Sassatelli, F.Sebastiani, A.Turati, **State of the art of current P2P and ontology languages initiatives. NeP4B** Technical Report, November 2006
- [TR7] S. Bergamaschi, P. Bouquet, P. Ciaccia , P. Merialdo, F. Mandreoli, M. Orsini et al., **Integrated System Prototype. WISDOM** Technical Report, December 2006
- [TR8] A. Maurino, D. Beneventano, F. Guerra, M. Orsini, L. Po, A. Sala, M. Comerio, F. de Paoli, M. Palmonari, C. Gennaro, F. Sebastiani, A. Turati, D. Cerizza, I. Celino, F. Corcoglioniti, **Detailed design for building semantic peer. NeP4B** Technical Report, July 2007

## Degree Dissertation

- [TL] Mirko Orsini, **Interoperabilità tra ontologie eterogenee: i traduttori OWL - ODL<sub>3</sub>**. Degree dissertation, "Università di Modena e Reggio Emilia", Faculty of Engineering, "Laurea" Degree in Computer Engineering, Modena, Italy, 2003-2004 (supervisor: prof. Sonia Bergamaschi). Available at <http://www.dbgroup.unimo.it/tesi/orsini.pdf>

## TEACHING EXPERIENCE

- **2007/2008** Lab lessons for the course of “Database Technologies” at the “Università di Modena e Reggio Emilia”, Faculty of Engineering, Computer Engineering Degree
- **2007/2008** Seminar: “The MOMIS system for Information Integration” for the course of “Knowledge Representation” at the “Università di Modena e Reggio Emilia”, Faculty of Engineering, Computer Engineering Degree
- **2006/2007** Lab lessons for the course of “Database Technologies” at the “Università di Modena e Reggio Emilia”, Faculty of Engineering, Computer Engineering Degree
- **2006/2007** Seminar: “The MOMIS system for Information Integration” for the course of “Advanced Information Systems” at the “Università di Modena e Reggio Emilia”, Faculty of Engineering, Management Engineering Degree
- **2005/2006** Seminar: “The MOMIS system and the Query Manager module” for the course of “Knowledge Representation” at the “Università di Modena e Reggio Emilia”, Faculty of Engineering, Computer Engineering Degree
- **2005/2006** Lab Assistant for the course of “Information Systems” at the “Università di Modena e Reggio Emilia”, Faculty of Engineering, Industrial Management Engineering Degree
- **2005/2006** Lab Assistant for the course of “Information Systems and Databases”, at the “Università di Modena e Reggio Emilia”, Faculty of Engineering, Industrial Management Engineering Degree.
- **2005/2006** Seminar: “The MOMIS system for Information Integration” for the course of “Advanced Information Systems” at the “Università di Modena e Reggio Emilia”, Faculty of Engineering, Management Engineering Degree
- **2004/2005** Seminar: “OWL: a language for ontology description” for the course of “Knowledge Representation” at the “Università di Modena e Reggio Emilia”, Faculty of Engineering, Computer Engineering Degree
- **2004/2005** Lab Assistant for the course of “Advanced Information Systems” at the “Università di Modena e Reggio Emilia”, Faculty of Engineering, Management Engineering Degree
- **2004/2005** Assistant for the course of “Information Systems” at the “Università di Modena e Reggio Emilia”, Faculty of Economics, Master of Business Studies

## WORK EXPERIENCE

- Three years young researcher contract for research activity on the MIUR research project **NeP4B (Networked Peers for Business)**, MIUR funded research project – FIRB 2005 (July 25, 2006 - now)
- Collaboration with “Dipartimento di Scienze e Metodi dell'Ingegneria, Università di Modena e Reggio Emilia” for research activity on the Emilia-Romagna research project **STIL Strumenti Telematici per l'Interoperabilità delle reti di imprese: Logistica digitale integrata per l'Emilia-Romagna** (June 1, 2005 – May 31, 2006)
- Collaboration with “Dipartimento di Ingegneria dell'Informazione, Università di Modena e Reggio Emilia” (November 15, 2004 – April 30, 2005) for research activity on the EU IST research project **SEWASIE (SEmantic Web and AgentS in Integrated Economies)**
- Collaboration with “Master Training” Reggio Emilia, Italy for the development of an Information System for the management of schools (2002)
- Collaboration with “Nexus Digital Solutions” Reggio Emilia, Italy ([www.nexus-ds.com](http://www.nexus-ds.com)) for the development of Management/Information Systems for restaurants (2001) and for online courses (2002)
- Course of Computer Science at “Scuola 2F” Modena, Italy (Private school of computer science) (1999-2000)
- WebMaster of Internet sites:
  - [www.hoteldonatello-mo.it](http://www.hoteldonatello-mo.it) (Hotel Donatello) (2004- now)
  - [www.closalerno.it](http://www.closalerno.it) (Studio Professionale Associato Clò-Salerno) (2003- now)
  - [www.gastrotricha.unimore.it](http://www.gastrotricha.unimore.it) (Gastrotricha – Prof. A.Todaro – Department of Animal Biology, Università di Modena e Reggio Emilia) (2003- now)
  - [www.ristorantelagola.com](http://www.ristorantelagola.com) (Ristorante La Gola) (2001-now)

## Technical knowledge

- **Programming languages:** Java, C, C++, SQL, Visual Basic
- **Web technologies:** JavaScript, DHTML, Asp, Jsp, Cgi, XML, RDF, OWL.
- **DBMS:** SQL Server, DB2, MySql, PostgreSQL, Access.
- **Operating Systems:** Windows, Linux.