

Curriculum Vitae of Giovanni Tummarello, Ph.D

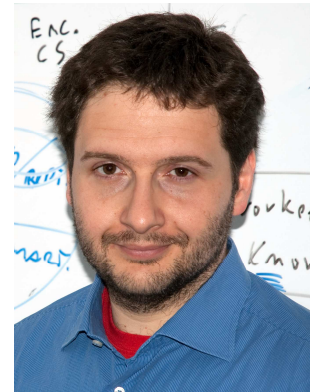
General

Born on the 2/3/1976 in Verona, Italy,
1 daughter (Eleonora)

Currently sharing residence Trento, Italy and Galway, Ireland

Trento Office/Mobile: +39 0461 314566 / +39 331 1725165
Galway Office/Mobile : +353 091 495285 +353 87 1272938

Email: g.tummarello@gmail.com



Homepage: <http://g1o.net>

Milestones

- 2009-today** Research Fellow at Fondazione Bruno Kessler (FBK) Trento, Unit Leader: Web of Data (3 people - WeD <http://wed.fbk.eu>)
- 2008-today** Research Fellow and Adjunct Lecturer at DERI Galway, Unit Leader: Data Intensive Infrastructures (9 people - DI2 <http://di2.deri.ie>)
- 2007** Postdoctoral Researcher and Adjunct Lecturer at DERI Galway.
- 2005-2006** Postdoctoral Researcher at DEIT, Università Politecnica delle Marche with topic "Multimedia Semantics"
- 2004-2005** Research grant from CNR/ISTI
- 2004** Ph.D Thesis discussion and graduation. Thesis title "Global scale merging of Multimedia annotations using P2P, MPEG-7 and Semantic Web technologies"
- 2001** Graduation in Electronic Engineering by discussion of my thesis titled "A Neural Network approach to the minimization of the environmental impact of the sugar industry", Score 106/110
- 1998-1999** Exchange student at Royal Institute Of Technology (Stockholm, Sweden)
- 1995** Graduated at Liceo Scientifico Savoia, (Ancona). Score (60/60).
- 1994** Graduated at Los Fresnos High School, (Texas, US)

Peer reviewed publications, in inverse chronological order:

1. R. Delbru, N. Toupikov, M. Catasta, and G. Tummarello. "A Node Indexing Scheme for Web Entity Retrieval" Extended Semantic Web Technology Conference (ESWC) 2010
2. R. Delbru, N. Toupikov, M. Catasta, G. Tummarello, S. Decker "Hierarchical Link Analysis for Ranking Web Data" Extended Semantic Web Technology Conference (ESWC) 2010
3. G. Tummarello, R. Cyganiak, M. Catasta, S. Danielczyk, R. Delbru, S. Decker "Sig.ma: Live views on the Web of Data", Demonstrations in proceedings of the WWW2010 conference

4. G. Tummarello, R. Cyganiak, M. Catasta, S. Danielczyk, R. Delbru, S. Decker "Sig.ma: Live views on the Web of Data", Journal of Web Semantics, to appear 2010
5. G. Tummarello, S. Decker "Sig.ma: to see the Web of data, to foresee its future", European Semantic technology conference, Vienna December 2009
6. G. Tummarello, R. Delbru "Publishing Data that Links Itself: a conjecture", AAAI Spring Symposium "Linked Data Meets Artificial Intelligence", March 22-24 2010
7. M. Catasta, R. Delbru, N. Toupikov, and G. Tummarello "Managing Terabytes of Web Semantics Data" In "Semantic Web Information Management A Model-Based Perspective" De Virgilio, Roberto; Giunchiglia, Fausto; Tanca, Letizia (eds) 2009 - ISBN: 978-3-642-04328-4
8. R. Delbru, N. Toupikov, M. Catasta, R. Fuller, G. Tummarello "SIREn: Efficient Search on Semi-Structured Documents", Book Chapter in "Lucene in Action" second edition, published by Manning Publications.
9. R. Cyganiak, M. Catasta, G. Tummarello "Towards ECSSE: live Web of Data search and integration". In Semantic Search 2009 Workshop (SemSearch09) at WWW2009.
10. A. Iqbal, O. Ureche, M. Hausenblas, G. Tummarello "LD2SD : Linked Data Driven Software Development", International Conference on Software Engineering and Knowledge Engineering SEKE 2009
11. N. Toupikov, J. Umbrich, R. Delbru, M. Hausenblas, G. Tummarello "DING! Dataset Ranking using Formal Descriptions", 2nd Workshop on Linked Data on the Semantic Web, WWW2009 Workshop, Madrid
12. D. Le Phuoc, A. Polleres, C. Morbidoni, M. Hauswirth, G. Tummarello "Rapid Semantic Web Mashup Development through Semantic Web Pipes", World Wide Web Conference 2009, Madrid
13. G. Tummarello, R. Delbru, M. Catasta, R. Cyganiak, N. Tupilov, P. Capriotti, G. Renzi, O. Ureche, S. Decker, "Sindice.com: building a data Web Services Startup", Third Asian Semantic Web Conference 2008.
14. R. Delbru, A. Polleres, G. Tummarello, S. Decker "Context Dependent Reasoning for Semantic Documents in Sindice", 4th International Workshop on Scalable Semantic Web knowledge Base Systems (SSWS2008) at ISWC 2008
15. P. Mika, G. Tummarello "Web Semantics in the Clouds", IEEE Intelligent Systems, Volume 23 , Issue 5 (September 2008) ISSN:1541-1672
16. X. Bai, R. Delbru, G. Tummarello "RDF Snippets for Semantic Web Search Engines", International Conference on Ontologies, Databases and Applications of Semantics, Monterrey, Mexico 2008
17. G. Tummarello, C. Morbidoni "The DBin platform: a complete environment for Semantic Web Communities", Journal of Web Semantics. Volume 6, Issue 4, November 2008, Pages 257-265
18. O. Ureche, G. Tummarello, M. Leyden, P. Corcoran, B. McDaniel, "Amulet – An Implementation of a Digital Rights Management Trusted System Applied To SCORM Compliant Content", IADIS e-Learning International Conference, Amsterdam, Netherlands, 2008
19. G. Tummarello, R. Delbru "Entity Coreference Resolution Services in Sindice.com: Identification on the current Web of Data" In *1st international workshop on Identity and Reference on the Semantic Web (IRSW2008)* Workshop at 5th European Semantic Web Conference ESWC-08, 2008.
20. R. Cyganiak, H. Stenzhorn, R. Delbru, S. Decker, G. Tummarello, "Semantic Sitemaps: Efficient and Flexible Access to Datasets on the Semantic Web", in *Proceedings of the Proceedings of the 5th European Semantic Web Conference 2008*.
21. C. Morbidoni, D. Le Phuoc, A. Polleres, M. Samwald, G. Tummarello "Previewing Semantic Web Pipes". In *Proceedings of the 5th European Semantic Web Conference (ESWC2008)*, Demo Section, LNCS, Springer 2008.
22. U. Bojars, J. Breslin, V. Peristeras, G. Tummarello, S. Decker, "Interlinking the Social Web with Semantics". In IEEE Intelligent Systems, 23(3): 29-40, 2008.

23. G. Tummarello, C. Morbidoni., F. Piazza "A proposal for Textual Encoding based on Semantic Web tools", Online Information Review, Volume no. 32 Issue no. 4. Published by Emerald. 2008
24. E. Oren, R. Delbru, M. Catasta, R. Cyganiak, H. Stenzhorn, G. Tummarello "Sindice.com: A document-oriented lookup index for open linked data." In International Journal of Metadata, Semantics and Ontologies, 3(1), 2008.
25. G. Tummarello, "A Sitemap extension to enable efficient interaction with large quantities of Linked Data", W3C Workshop on RDF Access to Relational Databases, Boston, USA 2007
26. C. Morbidoni, A. Polleres., G. Tummarello, "Who the FOAF knows Alice? A needed step towards Semantic Web Pipes", ISWC 2007 Workshop on New forms of Reasoning for the Semantic Web: Scaleable, Tolerant and Dynamic, Busan, Korea
27. G. Tummarello, C. Morbidoni, R. Bachmann-Gmur, O. Erling, "RDFSyc: efficient remote synchronization of RDF models", Proceedings of the 6th Semantic Web Conference, Busan, Korea, 2007
28. G. Tummarello, E. Oren, R. Delbru, "Sindice.com: Weaving the Open Linked Data", Proceedings of the 6th Semantic Web Conference, Busan, Korea, 2007
29. E. Marcheggiani, M. Nucci, G. Tummarello, C. Morbidoni, "Geo Semantic Web Communities for Rational Use of Landscape Resources", Ontologies for Urban development: Conceptual Models for Practitioners, 17 – 18 October 2007, Turin, Italy
30. E. Oren, G. Tummarello "A lookup index for Semantic Web resource", 3rd Workshop on Scripting for the Semantic Web, colocated with ESWC 2007, Innsbruck Austria
31. G. Tummarello, C. Morbidoni "Collaboratively building structured knowledge with DBin: from del.icio.us tags to an "RDFS Folksonomy" Workshop on Social and Collaborative Construction of Structured Knowledge at 16th International World Wide Web Conference (WWW2007) Banff, Canada, May 8, 2007
32. G. Tummarello, C. Morbidoni, M. Nucci, E. Marcheggiani "Interacting Geo Semantic Web Communities with the DBin platform: use cases and perspectives" in Scharl, A. and Tochtermann, K., Eds. (2007). The Geospatial Web - How Geo-Browsers, Social Software and the Web 2.0 are Shaping the Network Society. London: Springer. <http://geoweb.know-center.at/>.
33. F. Iacchelli, G. Tummarello, S. Squartini, F. Piazza "A MPEG-7 Architecture with a Blind Signal Processing based front-end for Spoken Document Retrieval" in "The fundamentals of verbal and non verbal communication and the biometrical issues" Editors: Anna Esposito, Eric Keller, Maria Marinaro, and Maja Bratanic (2007). NATO Publishing Series. IOS Press BV Nieuwe Hemweg 6b 1013 BG Amsterdam The Netherlands
34. G. Tummarello, C. Morbidoni, F. Kepler, F. Piazza and P. Puliti, "A novel Textual Encoding paradigm based on Semantic Web tools and semantics", in Proceedings of the International Conference on Semantic Web and Digital Libraries, February 2007, Bangalore, India
35. G. Tummarello, C. Morbidoni, M. Nucci, R. Cyganiak, "DODA 0.1: An Ontology for lightweight integration of Semantic Data Access technologies", Proceedings of the 1st International Workshop on Semantic Information Integration on Knowledge Discovery SIK 2006. Published by Austrian Computer society, ISBN to be made available
36. R. Garcia, G. Tummarello, "Semantic Digital Rights Management for Controlled P2P RDF Metadata Diffusion" Semantic Web Policy Workshop, Athens, GA, USA November 5, 2006.
37. Christian Morbidoni, Giovanni Tummarello, Michele Nucci, Richard Cyganiak. "The DODA Ontology: Lightweight Integration of Semantic Data Access Technologies" In Proceedings of SWAP 2006, the 3rd Italian Semantic Web Workshop, Pisa, Italy, December 18-20, 2006, CEUR Workshop Proceedings, ISSN 1613-0073, online <http://ceur-ws.org/Vol-201/42.pdf>.
38. C. Morbidoni, G. Tummarello, M. Nucci, F. Piazza, P. Puliti, "Rich Personal Semantic Web Clients: scenario and a prototype", proceedings of "EKAW 2006 - 15th International Conference on Knowledge Engineering and Knowledge Management Managing Knowledge in a World of Networks", October 2006, Podybrady, Czech Republic
39. C. Morbidoni, G. Tummarello, M. Nucci, Francesco Piazza, Paolo Puliti, "DBin – enabling SW P2P communities", 15th International Conference on Knowledge Engineering and

- Knowledge Management (EKAW 2006), poster track, October 2006, Pödebrady, Czech Republic
40. G. Tummarello, C. Morbidoni, M. Nucci, "Enabling Semantic Web communities with DBin: an overview", Proceedings of the Fifth International Semantic Web Conference (ISWC 2006), November 2006, Athens, GA, USA
 41. G. Tummarello, C. Morbidoni, M. Nucci, "Semantic Web Communities with DBin", Fifth International Semantic Web Conference, Poster track, November 2006, Athens, GA, USA
 42. G. Tummarello, C. Morbidoni, M. Nucci, "Distributed creation and revision of domain knowledge based on Rich Semantic Web Clients", AAAI 2006 Fall Symposium on Semantic Web for Collaborative Knowledge Acquisition, October 2006, Hyatt Crystal City, Arlington, VA
 43. G. Tummarello, C. Morbidoni, M. Nucci, F. Piazza, P. Puliti, "ESWC 2006 Demo: DBin – enabling SW P2P communities", 3rd European Semantic Web Conference, demo track, June 2006, Budva, Montenegro
 44. G. Tummarello, C. Morbidoni, M. Nucci, O. Panzarino, "Brainlets: 'instant' Semantic Web applications", 2nd Workshop on Scripting for the Semantic Web (co-located with ESWC 2006), June 12, 2006, Budva, Montenegro
 45. G. Tummarello, C. Morbidoni, F. Kepler, F. Piazza, P. Puliti, "Semantic Web based Textual Markup: a preliminary evaluation", International Conference on Language Resources and Evaluation (LREC 2006), May 2006, Genova, Italy
 46. G. Tummarello, C. Morbidoni, "DBin: Semantic Web for user communities, now!", 15th International World Wide Web Conference, developers track, May 2006, Edinburgh, Scotland
 47. G. Tummarello, C. Morbidoni, Paolo Puliti, and Francesco Piazza, "Semantic Audio Hyperlinking: a Multimedia-Semantic Web scenario", First International Conference on Automated Production of Cross Media Content for Multi-channel Distribution (AXMEDIS 2005), 2005, Florence, Italy
 48. G. Tummarello, C. Morbidoni, F. Piazza, P. Puliti "The DBin platform: toward a personal tool to experience the Semantic Web" , Proceedings of the 2nd Italian Semantic Web Workshop University of Trento, Trento, Italy, 14-15-16 December 2005
 49. G. Tummarello, C. Morbidoni, D. Kourtisis, F. Piazza, P. Puliti "Toward MUI: Ontology assisted global identification of Audio Resources " , Proceedings of the 2nd Semantic Web Applications and Perspectives Workshop. University of Trento, Trento, Italy, 14-15-16 December 2005
 50. Barbera M., Di Donato F. , Tummarello G., Morbidoni C. "HyperJournal, PHP scripting and Semantic Web technologies for the Open Access" Scripting for Semantic Web, Workshop at ESWC2005 May 30, 2005, Heraklion, Greece.
 51. Tummarello G., Morbidoni C, Puliti P, Piazza F., "RDF signing supporting resource centric requests" Proceedings of the Poster track, ESWC 2005.
 52. P. Astrelli, M. Di Bono, M. Martinelli, O. Salvetti, M. Catasta, C. Morbidoni, F. Piazza, G. Tummarello, O. Signore "Toward a scalable multimedia metadata infrastructure using distributed computing and Semantic Web technologies", Poster session, 2nd European Workshop on the Integration of Knowledge, Semantic and Digital Media Technologies, December 2005, London
 53. Tummarello G., Morbidoni C., E. Pierazzo, ["Toward textual encoding based on RDF"](#), ICC 9th International Conference on Electronic Publishing, Katholieke Universiteit Leuven, Belgium, 8-10 June 2005.
 54. Tummarello G., Morbidoni C., P. Puliti, F. Piazza, ["Signing individual fragments of an RDF graph"](#), Proceedings of the poster track of WWW2005
 55. Tummarello G. , Morbidoni C., P. Puliti, F. Piazza, "The DBin Semantic Web platform: an overview", WWW2005 Workshop on The Semantic Computing Initiative (SeC 2005)
 56. Tummarello, G. ; Morbidoni, C. ; Petersson, J. ; Piazza, F.; Mazzieri, M. ; Puliti P. "Toward widely deployable Semantic Web P2P: tools, definitions and the RDFGrowth algorithm" to be presented at ISWC 2004 Workshop on Semantic Web Technology for Mobile and Ubiquitous Applications

57. Tummarello, G. ; Morbidoni, C. ; Piazza, F.; Puliti P. "MPEG7ADB: Automatic RDF annotation of audio files from low level MPEG-7 metadata" SemAnnot 2004, ISWC2004 workshop
58. Tummarello, G. ; Morbidoni, C. ; Petersson, J. ; Piazza, F.; Mazzieri, M. ; Puliti P. ; Saletti F. "P2P Multimedia Annotation and browsing based on Semantic Web and MPEG-7: An overview of the DBin Project" MusicNetwork Workshop (Barcellona, September 2004)
59. Tummarello, G. ; Morbidoni, C. ; Petersson, J. ; Piazza, F.; Puliti P. "RDFGrowth, a P2P annotation exchange algorithm for scalable Semantic Web applications" P2P knowledge Management (Boston, August 2004):
60. Tummarello, G. ; Morbidoni, C. ; Petersson, J. ; Puliti P.; A.F. Dragoni, Piazza, F.; "From Multimedia to the Semantic Web using MPEG-7 and Computational Intelligence" September 2004 Proceedings of the Web Delivering of Music, Fourth International Conference on (WEDELMUSIC'04) - Volume 00
61. Crysand, H.; Tummarello G. ; Piazza, F. ; "An MPEG7 Library for Music" 3rd MUSICNETWORK Open Workshop 13-14 of March 2004, Munich, Germany
62. Tummarello, G.; Morbidoni, C.; Piazza, F.; "Transparently Allowing Multimedia and advanced content on existing web based applications" – World Wide Web conference 2003
63. Tummarello, G.; Morbidoni, C. ; Piazza, F. "Enhancement of existing Web applications to support audio and musical tools" Web Delivering of Music, 2003. 2003 WEDELMUSIC. Proceedings. Third International Conference on , 15-17 Sept. 2003
64. Corinti, E.; Amadio, V.; Tummarello, G.; Piazza, F.; "Employing adaptive functions and maximum entropy principle for nonlinear blind source deconvolution", Neural Networks, 2003. Proceedings of the International Joint Conference on , Volume: 2 , 20-24 July 2003
65. Tummarello, G.; Nardini, F.; Piazza, F.; "Stepsize control in NLMS acoustic echo cancellation using a neural network", Circuits and Systems, 2003. ISCAS '03. Proceedings of the 2003 International Symposium on, Volume: 5 , 25-28 May 2003
66. Tummarello, G.; Riva, G.; Toscano, G.; Piazza, F.; "Evaluation of neural network techniques in predicting and minimizing the mass of soil wastes in a sugar-beet harvesting season", Neural Networks, 2002. IJCNN '02. Proceedings of the 2002 International Joint Conference on, Volume: 1 , 12-17 May 2002
67. Riva, G.; Foppa Predetti, E.; Toscano, G.; Tummarello, G. "Optimization tool for qualitative performance analysis of agro-industrial machinery" Agricontrol 2000, July 10-12 Wageningen, the Netherlands

Fund acquisition

Amounts in euro or equivalent

| | | |
|------|--|--------|
| 2010 | EU project SemLib – Research4SMEs program for DERI | (360k) |
| 2010 | EU project cloud4Soa – Co-management for DERI | (300k) |
| 2010 | EU Project LOD2 Project (IP) for DERI | (600k) |
| 2010 | EU Coordinate Action LATC, led by Michael Housenblas (Postdoc unit DI2) | (270k) |
| 2009 | ESA internal information aggregation engine | (60k) |
| 2008 | Within DERI LION II grant , Data Intensive Infrastructure Unit Program | (1M) |
| 2008 | EU Project IMP (STREP) for DERI | (500k) |
| 2008 | OpenLink Software, contribution in kind to the Lion II grant | (300k) |
| | euro) | |
| 2007 | EU Project OKKAM, (IP) for DERI | (470k) |
| 2007 | EU Project Romulus (STREP) for DERI | (280k) |
| 2006 | EU Project Discovery (EContentPlus) for Universita' Politecnica delle Marche | (270k) |
| 2005 | Google Summer of code, for Universita' Politecnica delle Marche | (25k) |

Awards and recognitions

- 2009 Semantic Web Challenge, <http://sig.ma> (3rd Prize)

- 2009 Asian Semantic Web Conference, Best Business Solution, 2nd Prize ex equo (no 1st awarded)
- 2008 European Semantic Technology Conference, Best Business Idea Contest, 1st Prize <http://www.estc2008.com/index.php/contest> (Sindice.com)
- 2008 Triplification Challenge, at I-Semantics 2008, Deri Pipes (<http://pipes.deri.org>) is awarded 3rd prize
- 2008 Best DERI paper (Saltlux Prize) – "Sindice.com: A Documented-oriented Lookup Index for Open Linked Data"
- 2007 My 2 first name articles at the International Semantic Web Conference are both declared 'Spotlight papers' (approx 1 in 4 award)
- 2006 Semantic Web Challenge, DBin Platform (3rd Prize)

Other Projects, Activities and Roles

| Year | Description | Role |
|------|--|--------------------------|
| 2010 | Consuming Linked Data workshop (COLD) accepted for ISWC 2010 | Program Committee |
| 2010 | 5th International Conference on Semantic and Digital Media SAMT 2010 | Program Committee |
| 2010 | NeFoRS Workshop on NeFoRS: New Forms of Reasoning for the Semantic Web: Scalable & Dynamic | Program Committee |
| 2010 | SemSearch10, www2010 Workshop | Program Committee |
| 2010 | ESWC 2010: Poster Section | Program Committee |
| 2010 | ESWC 2010: AI Mashup Challenge | Program Committee |
| 2009 | 1st Linked Data-a-thon (http://www.linkeddata-a-thon.com/index.php/Main_Page) | Judge |
| 2009 | WebStar Cluster – Backbone to a laboratory of Web Science. (400+ cores 100+ TB disk space). Hardware to be installed October 2009 | Project lead |
| 2009 | European Space Agency Internal Search Engine – using Siren, the search engine aggregates multiple structured, unstructured and semistructured sources at ESA and provides faceted browsing of the results. | Lead in DERI consultancy |
| 2009 | Project SIREn (Semantic Information Retrieval), the IR engine developed for Sindice is made open source. http://siren.sindice.com | Supervisor |
| 2009 | Project "Sparallax" to port the Metaweb Parallax browser to the Semantic Web http://sparallax.deri.ie | Project lead |
| 2009 | Launched http://Sig.ma , Semantic Browsing and Mashup generator | Project lead |
| 2009 | International Semantic Web Conference 2009 | Program committee |
| 2009 | SemSearch09, workshop at the 18th International World Wide Web Conference in Madrid | Program committee |
| 2009 | Scripting for the Semantic Web, Workshop at European Semantic Web Conference 2009 | Program committee |

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| 2009 | IJCAI-09 workshop on Identity and Reference in web-based Knowledge Representation http://ir-kr.okkam.org/ | Organizer |
| 2009 | 3rd International Conference on Metadata and Semantic Research | Program committee |
| 2008 | 3rd International Conference on Semantic and Digital Media Technologies | Program committee |
| 2008 | 12th International Conference on Knowledge-Based & Intelligent Information & Engineering Systems – KES'08 | Program committee |
| 2008 | 7th International Conference on Ontologies, DataBases, and Applications of Semantics 2008 | Program committee |
| 2008 | ESWC 2008 Workshop “Identity and Reference on the Semantic Web | Co-Chair |
| 2008 | WWW2008 Workshop “Linked Data on the Web” | Program committee |
| 2008 | ESWC 2008 Workshop “Scripting for the Semantic Web” | Program committee |
| 2008 | WWW2008 Workshop “Location and the Web” | Program committee |
| 2007 | SWAP 2007 | Invited Speaker and Program Committee |
| 2007 | OKKAM EU project funded under FP7 | Project lead |
| 2007 | ROMULUS EU project funded under FP7 | Project lead |
| 2007 | Sindice.com – a large scale index of semantic documents available on the web. (http://sindice.com) | Project lead |
| 2007 | Semantic Web Pipes (http://pipes.deri.ie) | Project lead |
| 2007 | ACM Sixteenth Conference on Information and Knowledge Management (CIKM) | Program Committee |
| 2007 | First Workshop on Web Scale Infrastructures for Semantic Mashup, Search and Retrieval, at the IEEE Conference on Semantic Computing, September, Irvine, CA, USA | Co-Chair |
| 2007 | First IEEE International Conference on Semantic Computing | Program committee |
| 2007 | Identity Identifiers Identification, Workshop at the World Wide Web Conference 2007, Banff Canada | Co-Chair |
| 2007 | Engineered Applications of Semantic Web http://sisinflab.poliba.it/kes2007/ Invited Session at the 11th International Conference on Knowledge-Based & Intelligent Information & Engineering Systems KES 2007 | Program committee |
| 2007 | Artificial Intelligence and Social Semantic Collaboration | Program committee |
| 2004-2007 | Semantic Web and Multimedia group at Universita' Politecnica delle Marche. http://semedia.deit.univpm.it Activities included mentors for Google Summer of Code 2005, obtaining multiple funds from external research groups and companies, EU project proposal writing, supervising approximately 15 Master student theses and 1 Ph.D thesis. | Founder and Team leader |
| 2004-2007 | DBin, Enabling Semantic Web Communities www.dbin.org . Awarded | Inventor |

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| | 3 rd prize at the Semantic Web Challenge 2006. | |
| 2006 | Third Italian Workshop on Semantic Web Applications and Perspectives http://www.swapconf.it/2006 | Chair |
| 2006 | Productive Knowledge Work: Management and Technological Challenges. Workshop at WM 2007 - 4th Conference Professional Knowledge Management Experiences and Visions 28th of March to 30th of March 2007, Potsdam | Program committee |
| 2006 | Semantic Scripting Desktop ESWC 2006 | Program committee |
| 2006 | Semantic Desktop Workshop ISWC 2006 | Program committee |
| 2006-2009 | EU project eContentPlus DISCOVERY | Inventor of one of the base technologies (DBin) |
| 2006 | European Semantic Web Conference 2006 | Reviewer |
| 2006 | Application of Semantic Technologies 2006 | Program committee |
| 2006 | W3C Multimedia Semantics Incubator Group (XG) | Member |
| 2005 | Semantic Desktop Workshop 2005 | Program committee |
| 2005 | Consorzio Roma Ricerche, transaction form XML to Semantic Web Technologies. | Semantic Technology consultant |
| 2005 | Second Italian Workshop on Semantic Web Applications and Perspectives http://www.swap2005.org | Co-Chair |
| 2005 | SeMedia is Google Summer of Code mentor | Mentor and coordinator |
| 2004 | First Italian Workshop on Semantic Web Applications and Perspectives http://semanticweb.deit.univpm.it/swap2004 | Chair |
| 2004 | HyperLearning project (http://hyperl.org), | Semantic technology consultant. Ontology design |
| 2004 | RDFGrowth, a high replication methodology for Semantic Web P2P | Inventor/Co-Inventor |
| 2003-2004 | MPEG7AudioDB/ENC, a suite of tools leveraging the MPEG7 standard, The Enc (developed in cooperation with Holger Crysandt, Univ. Of Aachen) extracts low level audio MPEG7 while the DB provides tools for the creation of intelligent multimedia applications. It includes tools to support the production of RDF annotations (http://sourceforge.net/projects/mpeg7audiodb http://sourceforge.net/projects/mpeg7audioenc) | Inventor (DB), contributor (ENC) |
| 2004 | JaSiMPA Java P2P Messaging API, a firewall traversing synchronous/asynchronous Java messaging API. Provides the communication infrastructure for the RDFGrowth communication driver implemented in the DBin Project (http://sourceforge.net/projects/jasimp) | Inventor |
| 2003 | PostPlus (http://sourceforge.net/projects/postplus) a methodology to quickly enhance existing web applications with rich content (allowing, but not restricted to, multimedia content) | Inventor |

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| 1999-2001 | Numeric simulations for and agricultural machinery optimizations. DIBIAGA, University of Ancona | Research contractor |
| 2000-2006 | <i>Wup.it</i> , an Italian web community partly inspired by Slashdot.org | Editor |
| 1999-2001 | Design and implementation of the <i>Salamandra Content Management System</i> (www.cti2000.it/salamandra), to allow the management of the normative activity of the Italian Thermotecnical Committee (www.cti2000.it). | Co-Inventor |
| 1996-1998 | Software for the Windows environment including : the <i>Quickshell</i> (www.quickshell.com) file manager (coauthored); <i>Fractal Fighter</i> a videogame, <i>Tommy and Oscar</i> (I e II www.tommyoscar.com) videogames by Rainbow S.R.L (www.rbw.it) | Co-Inventor |
| 1996 | <i>Vocom</i> (www.radsite.com/vocom) integrated development Environment for telephony applications. Based on the same project the <i>Vox2Wav</i> converter and the Delphi component <i>Tvoxconv</i> . | Co-Inventor |
| 1995 | <i>Really</i> (www.ascu.unian.it-tummarel/really.shtml) A visual, real time mechanical model simulator with a rich user interface | Inventor |
| 1989-1995 | Game/Utility programming on the Amiga platform: Amiga Act Replay utilities published by Datel S.R.L (Milan, Italy), <i>Pango</i> , an action/strategy videogame published by Proxima Software (Rome, Italy) and later ported to PC machines and published in 1994 by AIM Games software (U.S) and in Arcade (Coin-operated) version by InfoCube (Pisa, Italy). | Inventor/ Co-Inventor |

Keynotes, Invited presentations, Accepted Seminars

Keynotes:

- 2009 – “Scalable, Tolerant.. Ultimately Useful Web of Data processing” 4th Yahoo organized workshop on the Future of Web Search (Ibiza, Spain), 2009
<http://grupoweb.upf.es/fows2009/>
- 2007- “The DBin Semantic Web Platform: lesson learnt” - 1st Workshop on Architecture, Design and Implementation of the Semantic Desktop, (Innsbruck, Austria) ESWC
- 2007 - 4th Conference on Semantic Web Applications and Perspectives (Bari, Italy)

Panelist:

- 2010 – Linked data meets AI, AAAI spring symposium. Title: *Intelligent Querying and Search for Linked Data* Panel Chair: David Israel Panelists: Craig Knoblock, Peter Norvig, Henry S. Thompson, and Giovanni Tummarello
- 2009 – Data Intensive computing Panel, Science Foundation Ireland research meeting, Athlone
- 2008 – Semantic Technology conference.

The following presentations were given as invited speaker or selected among others in a review process:

- Semantic Technology Conference, (San Jose, California) USA 2010
- SFI annual meeting, panelist in “The era of Petabyte science” Ireland 2009
- Semantic Technology Conference, (San Jose, California) USA 2009
- European Semantic Technology Conference, (Vienna, Italy) 2008
- Semantic Technology Conference, (San Jose, California) USA 2008
- San Francisco Tech Forum – (Mountain View, California), 2007

- Protégé group meeting – (Stanford, California), 2007
- Executive conference: “I vantaggi della Semantica nel Business”, Sheraton, (Milan, Italy) 2007
- Geospatial Knowledge Infrastructures Workshop, (Cardiff, UK), November 2007
- IIASS - Vietri Sul Mare (Naples, Italy), 2006, 2007
- ROMA3 University, 2006
- DERI, (Galway, Ireland) 2006
- LOA / CNR (Rome, Italy) 2006,
- ISTI / CNR (Pisa, Italy) 2004-2005. Seminars: RDF and P2P, Multimedia Semantics
- W3C Technical Plenary, (Cannes, France) 2006
- WWW 2006 – Developer Day – (Edinburgh, UK) 2006
- Consorzio Roma Ricerche (Rome, Italy), 2005
- Bicocca University (Milan, Italy), 2005
- CNRS (Lyon, France), 2005
- DIT - University of Trento, 2005
- Webbit.it, (Padova, Italy) 2004

Other, non peer reviewed workshop presentations have been held in Berlin 2007, DFKI (Kaiserslautern), 2006, CWI (Amsterdam) 2006, Cortona (Pisa) 2004, OOPSLA (Seattle) 2002.

Reviewer

Beside conference program committees, I have been serving multiple times as a reviewer for: Journal of Web Semantics, IEEE transactions on multimedia, International Journal of Semantic Computing, Netherlands Organisation for Scientific Research

Teaching Activity

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| 2008 | Emerging Web Media, National University of Ireland Galway. (co-lecturer) |
| 2006 | Distributed Systems, Universita' Politecnica delle Marche (co-lecturer) |
| 2004/5 | Software engineering practices, Multimedia semantics, Circuit theory (co-lecturer) |
| 2003 | Web development summer school, privately organized courses |

Academic Supervision

- Nur Aini Rakhmawati (expected graduation 2013, National University of Ireland Galway)
- Renaud Delbru, Ph.D (expected graduation 2010, National University of Ireland Galway)
- Oana Ureche, Master (graduated 2009, National University of Ireland Galway)
- Christian Morbidoni, Ph.D. (graduated 2007, Universita' Politecnica delle Marche)
- Onofrio Panzarino, Master (2006, Universita' Politecnica delle Marche)
- Michele Nucci, Master (2006, Universita' Politecnica delle Marche)

Ph.D commission member for Ulazmir Kharkevich (University of Trento 2010).

Venture Capital exposure

With the supervision of Nova Spivak, Radar Networks, I have been presenting and had several follow up meetings with major Silicon Valley/ West Coast VC funds in activities related to commercialization of Web 2.0/3.0 technology.

Current areas of scientific interest and activity

- Semantic Web / Linked data models
- Data Intensive Infrastructures, Large scale web information indexing and processing
- Information Retrieval for semistructured data
- Identity and identifiers,
- Semantic User Interfaces,
- Cooperative Systems for structured knowledge creations, Semantic Desktop
- Semantics and Multimedia, MPEG-7 and Semantic Web approaches,
- Semantic Web technologies for Textual Encoding and Digital Libraries,
- Signal processing, Computational Intelligence and Machine learning

Software Engineering

Object Oriented and Design patterns (Lecturer level). Multithread and distributed programming

Software Development processes

Rapid Application development practices, team and project management.

Programming/Technical

Very good experience: Java, Delphi, PHP, Assembler (68000).

Experienced with: C, C++, Python, Erlang, Matlab, Prolog., Eclipse rich client platform programming

Basic Unix server administrative skills.

Database programming, Semantic Web API programming, Network programming.

AJAX application programming with ZK

Team Leadership

Experience in leading development and research teams such as that of the DBin project, Sindice project. Currently project manager at DERI for EU FP7 projects (ROMOLUS, OKKAM, LOD2).

Languages

Italian (mother language)

English (excellent)

Other interests

Opera, Operatic singing (Baritone)