

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name MONICA DE MARTINO
Address [REDACTED]
Telephone(office) [REDACTED]
Fax [REDACTED]
E-mail [REDACTED]

Nationality Italian

Date of birth 10/09/1965

WORK EXPERIENCE

- Dates (from – to) 1997 on going
- Name and address of employer Consiglio Nazionale delle Ricerche (CNR)
Istituto di Matematica Applicata e Tecnologie Informatiche (IMATI)
Via de Marini 6, 16149 Genova
- Type of business or sector National Research Body, sector ICT
- Occupation or position held Researcher
(Since July 2001 Researcher permanent position;
since 1997 to 2001 Researcher short term position)
- Main activities and responsibilities During this period her main activities have been:
 - basic research on Semantics Analysis and Knowledge Management, Metadata analysis and Linked Data
 - Applied research on Geographic Information Systems and Spatial Data Infrastructure
 - Management of scientific activities within international projects (mainly EU founded)
 - Management of activity of PHD and fellowship students
 - Participation at Conference Programme Committee, Organization of Scientific events,
 - Dissemination of her scientific results at international Conferences and publication on Journals.
 - Teaching activities
- Responsibilities:
 - Scientific and Technical responsible for CNR-IMATI within different European Project
 - Program Committee Member at International Conference
 - Scientific responsible for PHD students or fellowship students
 - Educational activity teaching in some specific regional courses related to GIS
- Dates (from – to) 1993- 1997
- Name and address of employer Consiglio Nazionale delle Ricerche (CNR)
Istituto di Matematica Applicata e Tecnologie Informatiche (IMATI)
Via de Marini 6, 16149 Genova

**PERSONAL SKILLS
AND COMPETENCES**

Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas.

MOTHER TONGUE

ITALIAN

OTHER LANGUAGES

ENGLISH

- Reading skills
- Writing skills
- Verbal skills

Good
Good
Good

**SOCIAL SKILLS
AND COMPETENCES**

Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.

Working in international and national projects, I had developed team working capability and aptitude of communication and interaction with persons coming from different multicultural and multilingual communities.

**ORGANISATIONAL SKILLS
AND COMPETENCES**

Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.

Organizational Skill

- Management (administration and technical) of projects activities for IMATI mainly in international research projects.
- Organization of scientific events (conferences, workshop...)
- Coordination of teaching activity
- Coordination of PHD student and fellowship students activity
- Experience on European research policy and European Project management

Scientific Expertise

- **Knowledge Management technology:**
- **Metadata analysis, Information Visualization, semantics analysis (semantic similarity and granularity), Knowledge Organization Systems,**
- **Linked Data (publication, consumption and quality), Open data, Context Modelling**
- **Geographic Information management: GIS, Spatial Data Infrastructure, Environmental Data Sharing, Geographic Metadata.**
- **Cultural Heritage information Management: digital business archive management and access**
- **Geometric modeling and spatial data analysis and handling**
- **CAD/CAM techniques and their application in Numeric Control (NC) machining.**

**TECHNICAL SKILLS
AND COMPETENCES**

With computers, specific kinds of equipment, machinery, etc.

Operating System: MS-DOS, MS-Windows 95/98/NT/ME/2000/XP, UNIX, Linux
Programming Languages: C, C++, PASCAL
Web standards: HTML, XML, RDF
Development Environment: Microsoft Windows, X-Window
Dbms: ORACLE, MySQL, Sparql
GIS and Image Processing Systems: GeoNetwork, ARCGIS, ARCVIEWm(ESRI),

- PC Member at GEOWS 2009, The International Conference on Advanced Geographic Information Systems & Web Services, 1-6 February 2009, Cancun, Mexico.
- PC Member at, SWWS '07, 3rd International IFIP Workshop on Semantic Web & Web Semantics, November 25 - 30, 2007 Vilamoura, Algarve, Portugal.
- PC Member at Canadian Semantic Web Working Symposium 6 June 2006, in conjunction with Canadian AI 2006, Laval University, Québec city, Canada
- PC Member at 2nd International Workshop on Geographic Information Management (GIM '05), 22 - 26 August 2005 in conjunction with DEXA 2005 and EGOV 2005, Copenhagen, Denmark.
- Co Chair at 2nd International Workshop on Geographic Information Management (GIM '05), 22 - 26 August 2005 in conjunction with DEXA 2005 and EGOV 2005, Copenhagen, Denmark.

International Experiences

- Fellowship grant COMETT II from CE at the Institut National de Recherche en Informatique et en Automatique (I.N.R.I.A.) in Sophia Antipolis (Cannes), France.
- Working activity in many European project which make me work at international level
- Researcher host at the University METODISTA of Piracicaba UNIMEP, Brasile. Teaching activity on the topic: "Data Modelling to Computer Graphics Applications"

Participation and role in European Projects

Some of EU project where she has been scientific or technical responsible for CNR-IMATI are:

- eENVplus, eEnvironmental services for advanced applications within "INSPIRE", CIP programme, Pilot actions, January 2013- December 2015, 36 month (Scientific responsible)
- R.I.C.E.R.C.A. Project, funded under the program PO CRO European Social Fund, Liguria Region 2007-2013 Axis IV " Human Capital " ob . specific 1 / 6, Feb2013-Jen 2015.
- *NATURE-SDIplus*, eContentplus programme, Thematic Network, starting 1st October 2008, 30 month (Scientific responsible)
- *NESIS. ICT-PSP Network to enhance a European Environmental Shared and Interoperable Information System*, (member of Working Group for ICT roadmap for SEIS implementation)
- *eSDI-Net+* Rete tematica per la promozione del dialogo transfrontaliero e lo scambio delle best practice sull'Infrastruttura di Dati Territoriali (IDT) per l'arricchimento e il riuso dell'informazione geografica in Europa (Scientific responsible)
- *IDE-Univers* Una Infrastruttura di Dati Spaziali per le Università e i Centri di ricerca dell'Europa Mediterranea. (Scientific responsible)
- *INVISIP*: Information Visualization for Site Planning , IST-2000-29640, 25 month (Scientific responsible)
- *TAUTEM*: Transfer and Advanced use of Technologies of Manufacturing, INCO-DC96-2180, 36 months, starting date 1997. (Scientific responsible)
- *PLAINS*: Prototype Landscape Assessment Information System , N° ENV4-CT98-0753, Environment and Climates – CEO, 29 months, from 1 November 1998. (Technical responsible)
- *BEST-GIS*: Best Practice in User Interface for GIS , ESPRIT/Essi N°21580, 21 months, from 1 June 1996 to 28 February 1998. (Technical responsible)
- *ACT: Low Cost Location Monitoring System for Freight Containers*, CRAFT BES2-5542, 18 months, from 1 December 1998 to 31 May 2000. (Technical responsible)

Training

International courses (seminar)

- Invited speaker "Data Modelling to Computer Graphics Applications", at University METODISTA UNIMEP, Piracicaba, Brasile, October 1998.
- Seminar "High quality digital terrain model", at Instituto Nacional de Pesquisas Espaciais in Sao José dos Campos, Brasile, October 1998.
- Seminar "Characterization of surfaces represented by contour models", at "Seminar on Geometric Modeling and Reasoning", at CNR-IMA, Genova, 21-23 November 1994.

-
- **Conference Proceedings**
- A Quarati, M De Martino (2019), **Open Government Data usage: a brief overview**, IDEAS' 2019, 23rd International Database Engineering & Applications Symposium, ACM, 229-236
- Rosim S., de Freitas Oliveira J.R., De Martino M., Quarati A., Jardim A.C. (2019) **Urban Flood Area Delimitation Using Reverse Water Local Flow Paths**. In: Mannina G. (eds) *New Trends in Urban Drainage Modelling*. UDM 2018. Green Energy and Technology. Springer, Cham
- S Rosim, JR F. De Oliveira, L Massaru Namikawa, M De Martino, A. Quarati, (2018) **Workflow Provenance Metadata to Enhance Reuse of South America Drainage Datasets**, 2018 International Conference on eDemocracy & eGovernment (ICEDEG), IEEE, DOI:10.1109/ICEDEG.2018.8372337 , 16-23
- S. Rosim, J. R. de Freitas Oliveira, A. Copertino Jardim, M. De Martino, and A. Quarati. (2017) **Open data practices: The case of South America drainage datasets**. 2017 CHILEAN Conference on Electrical, Electronics Engineering, Information and Communication Technologies (CHILECON). Pucon, Chile. 18-20 October 2017. DOI: 10.1109/CHILECON.2017.8229525
- R. Albertoni, M. De Martino, and A. Quarati. (2017) **Linked thesauri quality assessment and documentation for Big Data discovery**. 2017 International Conference on High Performance Computing & Simulation. IEEE Computer Society, Genova. 17/07/2017-21/07/2017. DOI: 10.1109/HPCS.2017.16
- R. Albertoni, M. De Martino, and P. Podesta. (2016) **Linkset quality assessment for the thesaurus framework LusTRE**. Metadata and Semantics Research 10th International Conference, MTSR 2016. Göttingen, Germany. November 22-25, 2016. DOI: 10.1007/978-3-319-49157-8_3
- R. Albertoni, M. De Martino, and A. Quarati. (2016) **Integrated quality assessment of linked thesauri for the environment**. EGOVIS 2016. Porto, Portugal. Lecture Notes in Computer Science, September 5-8, 2016. DOI: 10.1007/978-3-319-44159-7_16
- B. Falcidieno, F. Giannini, M. Spagnuolo, R. Albertoni, M. Attene, S. Biasotti, C. E. Catalano, M. De Martino, M. Monti, M. Mortara, G. Patane', and C. Pizzi. (2016) **The shape and semantics modelling group**. EG Italian Chapter STAG: Smart Tools and Apps in computer Graphics 2016. Genova, Italy. 3-4 October 2016.
- M. De Martino, M. Monti, and C. Rosati. (2016) **A knowledge model for supporting digital exploration of historical industrial archives**. International Congress on Management of Cultural Heritage and Cultural Memory Institutions. Istanbul, Turchia. 17-20 September 2014.
- R. Albertoni, M. De Martino, and P. Podestà. (2015) **A linkset quality metric measuring multilingual gain in SKOS thesauri**. 2nd Workshop on Linked Data Quality co-located with 12th Extended Semantic Web Conference (ESWC 2015). Portoroz, Slovenia. June 1, 2015.
- A. Abecker, R. Wössner, K. Schnitter, R. Albertoni, M. de Martino, and P. Podestà. (2015) **Latest developments of the Linked Thesaurus Framework for the Environment (LusTRE)**. 29th EnviroInfo and 3rd ICT4S Conference 2015. Copenhagen, Denmark. September 7-9, 2015.
- A. Abecker, R. Albertoni, C. Heidmann, M. De Martino, and R. Wössner. (2014) **Using Interlinked Thesauri for INSPIRE-Compliant Metadata Management**. 28th Conference on Environmental Informatics - Informatics for Environmental Protection, Sustainable Development and Risk Management. Oldenburg, Germany. 10-12 September 2014.
- R. Albertoni, M. De Martino, and P. Podesta'. (2014) **Environmental Thesauri Under the Lens of Reusability**. 3rd International Conference on Electronic Government and the Information Systems Perspective. Munich, Germany. September 1-3, 2014. DOI: 10.1007/978-3-319-10178-1_18
- M. De Martino, M. Monti, S. Pastorino, and C. Rosati. (2014) **Ontology-driven Visual**

- the Application Context.** In: 5th International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE 2006) (Montpellier (France), 31 October - 2 November 2006). Proceedings, pp. 1020 - 1038. R. Meersman, Z. Tari et al. (eds.). (Lecture Notes in Computer Science, vol. 4275). Springer, 2006. *Caratterizzazione del paesaggio: uno strumento metodologico di analisi*,
- Albertoni R., Bertone A., De Martino M. **Information Search: the Challenge of Integrating Information Visualization and Semantic Web.** In: 16th International Workshop on Database and Expert Systems Applications (DEXA'05) (Copenhagen, Denmark, 22-26 August 2005). Proceedings, pp. 529 - 533. IEEE Computer Society, 2005.
 - Albertoni R., Bertone A., De Martino M. **Semantic Analysis of Categorical Metadata to Search for Geographic Information.** In: 16th International Workshop on Database and Expert Systems Applications (DEXA'05) (Copenhagen, Denmark, 22-26 August 2005). Proceedings, pp. 453 - 457. IEEE Computer Society, 2005.
 - Albertoni R., Bertone A., De Martino M. **Visualization and Semantic Analysis of Geographic Metadata.** In: 2005 Workshop on Geographic Information Retrieval (GIR '05) (Bremen, Germany, 4 November 2005). Proceedings, pp. 9 - 16. C. Jones, R. Purves (eds.). ACM Press, 2005.
 - Albertoni R., Bertone A., De Martino M. **Semantic Web and Information Visualization.** In: 1st Italian Workshop on Semantic Web Applications and Perspectives (SWAP 2004), Ancona, Italy, 10 December 2004. Proceedings, pp.108-114.
 - Albertoni R., Bertone A., De Martino M. **Visual Analysis of Geographic Metadata in a Spatial Data Infrastructure.** In: 15th International Workshop on Database and Expert Systems Applications (DEXA'04) (Zaragoza, Spain, 30 August - 3 September 2004). Proceedings, pp. 861 - 865. IEEE Computer Society, 2004.
 - Albertoni R., Bertone A., Demers U., De Martino M., Hans H. **Knowledge Extraction by Visual Data Mining of Metadata in Site Planning.** In: ScanGIS '2003 : 9th Scandinavian Research Conference on Geographical Information Science (Espoo, Finland, 4-6 June 2003). Proceedings, pp. 119 - 130. K. Verrantaus, H. Tveite (eds.). Helsinki University of Technology, 2003.
 - Albertoni R., Bertone A., De Martino M. **Visual and Automatic Data Mining for Exploration of Geographical Metadata.** In: 6th AGILE Conference on GIScience (Lyon, France, 24-26 April 2003). Proceedings, pp. 479 - 488. M. Gould, R. Laurini, S. Coulondre (eds.). Sciences appliquées de l'INSA de Lyon, 2003.
 - Albertoni R., Bertone A., De Martino M. **Information visualization and interactive geo-data mining in site planning process.** In: First Annual Conference of Eurographics Italian Chapter (Mialno, Italy, 11-12 July 2002). Proceedings, pp. 1 - 5. The Eurographics Association, 2002.
 - Clematis A., De Martino M., Alessio G., Bini S., Feltri S. **Tranquillity Mapping Using a Network of Heterogeneous PC.** In: Parallel Computing : Advances and Current Issues : International Conference ParCo 2001 (Napoli, Italy, 4-7 September 2001). Proceedings, pp. 83 - 90. G.R. Joubert, A. Murli, F.J. Peters, M. Vanneschi (eds.). London, U.K., Imperial College Press, 2002.
 - S.Chraibi, M. De Martino, **Interference Avoidance Mode in NC Machining of Sculptured Surface,** Atti del Congresso Internazionale ISPE/CE 2001 Concurrent Engineering 2001, California, Agosto 2001, p.p.639-645.
 - De Martino M. Chraibi S., **Generation of a tool-path without collision in NC 5-axis machining.** 2000 International CIRP Design Seminar on Design with Manufacturing: Intelligent Design Concepts Methods and Algorithms (Haifa, Israel, 16-18 May 2000). Proceedings, pp. 69 - 73. Technion - Israel Institute of Technology, 2000.
 - M.De Martino, S.Chraibi **Improvements of CAD/CAM techniques in 5-axis machining of a complex part,** "International Workshop on Parallel Kinematic Machines", Milano, 30 Novembre, 1999, pp. 53-58.
 - M. De Martino, T. De Martino, S. Chraibi, **Collision Detection Optimization in TAUTEM project,** "3° International Seminar de Alta Tecnologia, Desenvolvimento

September 2010, (Short Paper + Presentation).

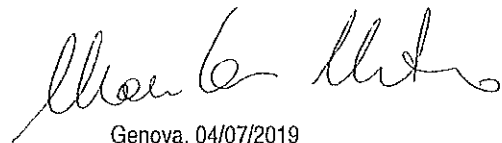
- De Martino M., Albertoni R., **A multilingual/multicultural semantic-based approach to improve Data Sharing in a SDI**, abstract and presentation at INSPIRE conference 2010, 22-25 June 2010. (Abstract +Presentation)
- Albertoni R., De Martino M., **Semantic Similarity Of Ontology Instances Tailored on the Application Context**. Poster at 15th International Conference On Knowledge Engineering and Knowledge Management (EKAW 2006), Podebrady, Czech Republic, 2-6 October 2006 (Abstract + Poster).
- Albertoni R., Bertone A., De Martino M., Demšar U., Hauska H. and Podolak I., **A visual data mining approach for geodata selection in INVISIP**, Abstract at 10th EC GI&GIS Workshop, Warsaw, Poland, June 2004 (Abstract +Presentation).
- Demšar U., Bertone A., Albertoni R., Podolak I., **Visual data mining for exploration of geographic metadata**, Poster at Geovisualisation 2004, Euresco conference, Chania, Greece, 2004.
- Albertoni R., Bertone A., De Martino M., **A Visualization-Based Approach to Explore Geographic Metadata**, WSCG POSTERS proceedings WSCG'2003 – The 11-th International Conference in Central Europe on Computer Graphics, Visualization and Computer Vision, Plzen, Czech Republic, 2003.

environmental thesauri, European Commission, eENVplus, CIP-ICT-PSP grant No. 325232, 2013

- D6. De Martino M., Albertoni R., Roccatagliata E., **Multilingual and Multicultural Issues including Thesaurus**, European Commission, Nature-SDIplus ECP-2007-GEO-317007, Project Deliverable, 2009.
- D7. Marangon F., Piccazzo M., Albertoni R., Bertone A., Podolak I.m. De Martino; **Evaluation Report of Demonstrator**, European Commission, INVISIP IST-2000-29640, Project Derivable 4.3, Bruxelles,2003.
- D8. Piccazzo M., Valfrè G., Marangon F., De Martino M., Bertone A., Albertoni R., Dunkars M.; **Architectural Concept of Analyser**, European Commission, INVISIP IST-2000-29640, Project Derivable 4.1, Bruxelles, 2002.
- D9. De Martino M., Bertone A., Albertoni R., Marangon F.; **Co-ordinated Report on Analysis**, European Commission, INVISIP IST-2000-29640, Project Derivable 2.5, Bruxelles, 2002.
- D10. De Martino M., Bertone A., Albertoni R., Hauska H., Demšar U., Dunkars M.; **Technical Report of Data Mining**, European Commission, INVISIP IST-2000-29640, Project Derivable 2.2, Bruxelles, 2002.
- D11. S. CHRAIBI M. De Martino, , A Scarcelli, "Report on collision avoidance tests Deliverable D43"; European Commission, TAUTEM project, INCO-DC Project DC96-2180, 09/11/2000

DRIVING LICENCE(S)

Yes



Genova, 04/07/2019

