

PERSONAL INFORMATION**Marialuisa Volta**

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Sex female | Nationality Italian

Current position

2016 - present Full professor of Control Systems, Leader of the research team "Integrated Assessment Modeling for Environmental Systems" at the Department of Mechanical and Industrial Engineering, University of Brescia (IT)

Research interests Non-linear systems analysis, control systems design. Environmental systems modeling and control. Decision models. Decision Support Systems. Integrated Assessment Modeling.

WORK EXPERIENCE**Academic employments**

2005-2016 Associate Professor of Control Systems, University of Brescia (IT)

1999-2005 Assistant Professor of Control Systems, University of Brescia (IT)

April 1999 - October 1999 Research Fellow, Politecnico di Milano (IT)

other appointments

January 2019 - present Research Advisor of Clean Air Group at the Lombardy Energy Cleantech Cluster, IT

2018 - present EU-TAIEX expert for topics: Air, Climate change, Macro-regional strategies, Regional development, Sustainable urban development

2018 - present REPRISE (Register of Expert Peer-Reviewers for Italian Scientific Evaluation) expert for topics: Fundamental research, Competitive industry and better society research, Scientific culture spread

December 2017 Member of the expert panel on Air Quality Directive review - European Court of Auditors, Luxembourg

2015 - present Vice-chair of the Technical Committee TC8.3 "Modelling and Control of Environmental Systems", IFAC - International Federation of Automatic Control

2014 - 2016 FP7 project reviewer, EC DG-RTD

2013 - 2016 Member of the Advisory board of FP7 SEFIRA (Socio-economic implications for individual responses to Air Pollution Policies in EU +27) project, EU FP7 603941

2006 - 2012 National delegate at UNECE - Convention on Long-range Transboundary Air Pollution, Task Force on Integrated Assessment Modelling

EU projects

- 2018-2019 Project leader: Surrogate models identification and validation based on CTM results, EC JRC tender n.C686554.X0
- 2017-2018 Third part leader: CAMS use case on air quality planning in urban areas using the ATMOSYS-CAMS application ECMWF/COPERNICUS/2017/CAMS_95f_VITO
- 2012-2015 Project coordinator: FP7 APPRAISAL (Air Pollution Policies for Assessment of Integrated Strategies At regional Local scales), EU FP7 308395
- 2010-2013 Scientific coordinator: OPERA (Operational Pollution Emission Reduction Assessment), EU LIFE09ENV/IT/092
- 2009-2010 Project coordinator: RIAT (Regional Integrated Assessment Tool), EC JRC 384364
- 2006-2009 Associate partner: EU NoE ACCENT - Mesoscale secondary pollution multi-objective control, EC DG-RTD FP6

National projects

- 2016-2018 WP leader: Air quality assessment in Lombardy region and Brescia province. A2A (IT)
- 2016-2018 Project coordinator: ATHLETIC (Air quality and Life styles: Health Cobenefits), University of Brescia (IT)
- 2015 AIR-ENERGY Community manager, Open Innovation Regione Lombardia (IT)
- 2014-2015 Project Unit and WP leader: VALUTA (Assessing the impact and the economic value of the Lombardia Region Air Quality Plan), ARPA Lombardia (IT)
- 2013-2014 Unit leader: A Brescia si parla di scienza e tecnologia (science dissemination project), Italian Ministry of Education and Research (IT)
- 2010-2011 Project leader: NINFA, Design of a modelling system to assess the emission reduction costs in Emilia Romagna, ARPA Emilia Romagna (IT)
- 2006-2010 Team Co-Leader and WP Leader: QUITSAT, Italian Space Agency (I/035/06/0)

other appointments at University of Brescia

- 2016 - present Member of the Research Team, University of Brescia, Italy
- 2015 - present Scientific board of B+ Labnet (Laboratory for environmental health and sustainability), University of Brescia
- 2013 - 2014 Member of the Task Force Health&Wealth, Strategic programme of the University of Brescia
- 2009 - present Faculty member of the Doctoral Committee in Technology for Health

2005 - 2012 Faculty member of the Doctoral Committee in Computer Science, Engineering and Control Systems

2004 -2005 Member of the Faculty Senate of the University of Brescia

2001 - 2012 Member of Brescia University Research Board

EDUCATION AND TRAINING

1999 PhD degree in Information Engineering (EQF level 8)
University of Brescia (Italy)

1994 Laurea degree in Electrical Engineering (EQF level 7)
Politecnico di Milano (Italy)

Mother tongue	Italian		
Other language: English (self-assessment)	Understanding C1	Speaking C1	Writing C1

PERSONAL SKILLS AND COMPETENCES

Communication skills	Scientific presentations to large audiences. Science communication and divulgation to general public by lab activities and mass-media
Organisational/managerial skills	Project management and capacity planning. Research planning. Management of working teams. Management of scientific communication and dissemination events Organization of conferences and scientific committees. Project communication strategy management. Course teaching.
Technical skills and competences	Use of office and mathematical software suites. Development of optimization and forecasting algorithms and software. Design and implementation of environmental decision support systems.

ADDITIONAL INFORMATION

Awards	- BASALTO project, Oscar Masi Award for Innovation, 2017 - OPERA LIFE09ENV/IT/092 project - Best Environmental Life projects Award 2015 (EC DG-ENV)
Publications	ORCID: https://orcid.org/0000-0001-8924-6469
Scientific conferences	Chair and scientific committee member of scientific and science dissemination international conferences.
Invited speaker (relevant)	Integrated assessment for regional and local air quality policies, EC DG ENV – DG RTD, Green Week 2013. Session 6.3 - Science & evidence-based environmental policy making – the scientific input to the EU Air Policy Review, Brussels, June 2013