

CURRICULUM VITAE

Scira Menoni

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Field of research

Presently full professor at the Politecnico of Milan, Department of Architecture and Urban Studies, teaching at the Master Program: Civil Engineering for Risk Mitigation taught at the Politecnico-Polo di Lecco, Civil Engineering and Bachelor Program Urban Planning at the Politecnico di Milano. My field of specialization is technological and natural risks prevention, looking particularly at non-structural measures. Among the latter, land use and spatial plans and emergency plans have been the focus of my research and practical experience with public administrations working in the field.

Career in brief

- 1990 - 1993 Technician at the Computer Graphics Lab of the Politecnico di Milano
- 1993 - 1995 PhD candidate at the Politecnico di Milano in Regional and Environmental Planning
- 1999 - 2002 Researcher at the Politecnico di Milano
- 2003 - to 2017 Associate professor at the Politecnico di Milano
- 2017 – to now, Full professor at the Politecnico di Milano

Research experience

European and International

As a coordinator

- 2006-2008 coordinator of the European SSA *FP VI project Scenario* (Support on Common European Strategy for sustainable natural and induced technological hazards mitigation, CN 036979) in the VI FP.
- 2008- 2011 responsible for the research unit of the Politecnico di Milano and scientific coordinator of the *FP VII Strep project ENSURE* (Enhancing resilience of communities and territories facing natural and na-tech hazards. Contr. N. 212045) VII Framework Programme.
- 2013-2015 coordinator of the *EU FP VII funded Coordination Action, Know-4-drr* (Enabling knowledge for disaster risk reduction in integration to climate change adaptation) – C.N. 603807.
- January 2015- December 2016, Coordinator of the *EU – DG-ECHO funded project IDEA* (Improving Damage assessments to Enhance cost-benefit Analyses), G.A.N. ECHO/SUB/2014/694469.

Leading a partner team

- 2004 - 2007 responsible for the research unit of the Politecnico di Milano within the *Strep project ARMONIA* (Applied multi Risk Mapping of Natural Hazards for Impact Assessment Contr. N. 511208) VI Framework Programme .
- 2004-2005 responsible of the research unit of the Politecnico di Milano within the *Alfa project Centralrisk* (Maestria en evaluacion y prevencion de riesgos ambientales en el intorno centroamericano (Contr. N. II-0334-FA).
- 2009-2012, responsible for the research unit of the Politecnico di Milano of the project *Red sobre riesco y vulnerabilidad: estrategias sociales de prevencion y adaptacion*, funded under the cooperation programme EU-Mexico, Fonciyt, C.N. 000000000095191.
- May 2015 – now responsible of the unit of the Politecnico di Milano of the *Horizon 2020 EU funded project EDUCEN* (European Disasters in Urban centres: a Culture Expert Network (3C – Cities, Cultures, Catastrophes)) - C.N. 653874.

Team member

- 1996-1998, collaboration to the *EU FP V Project Sergisai* (Seismic Risk Evaluation through integrated use of Geographical Information Systems and Artificial Intelligence techniques), Contr. n. ENV4-CT96-0279, working within the Italian CNR coordinator team on the vulnerability of urban and regional systems to earthquakes.
- 1998-2000 consultancy within a sub-contract to ENEA for the *FP V EU funded TEMRAP* project (The European Multi-hazard Risk Assessment Project), (ENV4 - CT97 - 0589), dealing with social and economic vulnerability to multiple risks.
- 2009-2012, collaboration in the unit of the Politecnico di Milano to the Interreg project *MIARIA, Monitoraggio Idrogeologico Adattativo a Supporto del Piano di Rischio Integrato Alpino*, Italia-Svizzera, 2008-2013 (<http://www.miaria.regione.lombardia.it>).

National

As a coordinator

- January 2002-2004, in the scientific coordination team of the national project *Saving social, cultural and landscape values in Italian seismic areas*, funded by the Italian ministry for universities and scientific research (MIUR).
- January 2006-2008, coordinator of the national project *Early warning systems: technical, social and urban planning issues*, funded by the Italian ministry for universities and scientific research (MIUR).

Projects' evaluation activity

- 2006 Evaluator for a Natural Hazards-DG Research EU VI FP
- 2014 and 2016 Evaluator for the Security Program, Disaster Resilience calls, Horizon 2020
- 2013 and 2014 Midterm evaluation of FP7 projects for DG Research.
- 2015 Evaluator for a call issued by Climate Action, Natural Resources and Raw Material – DG Research, Horizon 2020
- 2016 Evaluator within the Quality of Research National Assessment (VQR- 2011-2014)
- 2017 Midterm evaluation of the Horizon 2020 EU_Circle project
- 2017-2018 Midterm evaluation of the Horizon 2020 Resin project

Planning and projects with public administrations

- October 2003 - May 2004, contributing to the project IreR (Regional Research Institute of the Lombardia Region Codice IReR 2003A016): *Socio-economic impact of settlements relocation from areas exposed to high hydrogeological risks.*
- February 2004 - July 2005, scientific coordinator of the research contract IreR (Regional Research Institute of the Lombardia Region Code IReR 2004A024): *In direct economic tools to mitigate natural risks.*
- October 2006 - February 2007 collaborating with a team of the Politecnico di Milano to develop the following report for the Civil and Security Protection Directorate of the Lombardia Region: *Framework of an integrated risk plan including mitigation measures for an area in the Milan metropolitan region.*
- November 2007- November 2009, responsible for the development of the *Drought emergency plan* of the Varese Province.
- June 2012 – now, consultant for the Po River Basin Authority for the *Development of Flood Risk Assessment and Flood Risk Management Plan* in the context of the implementation of the Floods Directive.
- November 2012 – November 2015, co-coordination (together with a colleague of the Politecnico di Milano) of the *Activity of post-flood damage assessment* for the Civil Protection Directorate of the Umbria Region in the context of EU structural funds (POR-FESR 2007-2013), producing a “*Report of the complete damage scenario following the 2012 November flood. Results of surveys and data analysis*”.
- October 2016 – March 2017, in charge of the service provided by the Department of Architecture and Urban Studies – Politecnico di Milano to the JRC- Directorate for Space, Security and Migration, “*Collecting and recording disaster damages and loss data according to European Directives and Guidance for responding to the Sendai Framework requests*” for the Catalunya Civil Protection Authority.

Invited presentations at conferences

- Invited speaker at the 5th European Civil Protection Forum “Partnership and Innovation”, within Panel 6: *Science-based disaster management - Advancing disaster management through scientific support*, Bruxelles, 6 - 7 May 2015.
- Invited speaker at a side event at the 2016 Understanding Risk Forum, organized by the World Bank-Feem, with the presentation *Knowledge in action: integrating different knowledges to achieve improved risk mitigation*, Venice, May 17th 2017.
- Invited paper: *Aspects and concepts of systemic vulnerability applied to volcanic risk assessment: learning lessons from real events and improving modelling capacity* 1st IAVCEI/GVM Workshop, From Volcanic Hazard to Risk Assessment Geneva, 27-28 June 2018.
- Invited paper : *Forensic investigation of disasters to improve risk models and to support resilient recovery*, International Conference Cities on Volcanoes, Naples, 3-7 September 2018.
- Post COV conference field trip in the Vulcano Island, Italy, September 11- 12 2018, presenting the CERG_C activity in the island regarding : *Systemic Vulnerability assessment to support risk mitigation measures.*

- Invited Paper with E. Corradi and A. Balducci, *Fragile Territories* at the 2nd International Forum on Architecture and Urbanism- Fragile Territories, Pescara, Italy, November 8-10 2018

Selected publications

Wantim M., C. Bonadonna, C. Gregg, S. Menoni, C. Frischknecht, M. Kervyn, S. Ayonghe, *Forensic assessment of the 1999 Mount Cameroon eruption, West-Central Africa, Journal of Physical Volcanology and Geothermal Research*, v. 358, pp. 13-30, 2018.

Menoni, S.(Lead Author); Bonadonna, C.; Garcia Fernandez, M.; Schwarze, R. *Recording disaster losses for improving risk modelling capacities. In Poljansek K., M. Martin Ferrer, T. De Groeve, I. Clark (eds.) "Science for disaster risk management 2017. Knowing better and losing less", European Commission, DG-JRC - ISBN:978-92-79-60678-6, 2017.*

D. Molinari, F. Ballio, S. Menoni (2017), *Flood Damage Survey and Assessment: New Insights from Research and Practice*, Wiley, AGU (American Geophysical Union) series.

S. Menoni, D. Molinari, F. Ballio, G. Minucci, O. Mejri, F. Atun, N. Berni, C. Pandolfo. *Flood damages: a model for consistent, complete and multi-purpose scenarios. Natural Hazards and Earth Systems Sciences*, 16, pp. 2783-2797, 2016

S. Menoni, D. Molinari, F. Ballio, G. Minucci, O. Mejri, F. Atun, N. Berni, C. Pandolfo. *Flood damages: a model for consistent, complete and multi-purpose scenarios. Natural Hazards and Earth Systems Sciences*, 16, pp. 2783-2797, 2016.

D. Molinari , S. Menoni, G. T. Aronica, F. Ballio, N. Berni, C. Pandolfo, M. Stelluti, G. Minucci (2014), *Ex post damage assessment: an Italian experience, NATURAL HAZARDS AND EARTH SYSTEMS SCIENCES*, 14, 901-916, ISSN 1561-8633. (ISI Publication)

S. Menoni, D. Molinari, D. Parker, F. Ballio, S. Tappsel (2012). *Assessing multifaceted vulnerability and resilience in order to design risk mitigation strategies. NATURAL HAZARDS*, vol. 10.1007/s11069-012-0134-4, p. 1-26, ISSN: 1573-0840.

Date: 25 October 2018, Place: Milan