



Giovanna Franco

Full professor

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Education and training

1994

PhD in Building and Environmental Renewal

Knowledge and design in renovation of existing architecture

University of Genoa Naples Palermo and Politecnici of Milan and - Genoa - IT

1987

Master degree in Architecture

Refurbishment and reuse of an industrial site Ansaldo Meccanico Factory in Genova Sampierdarena - 110/110 cum laude

University of Genoa - Genoa - IT

1986

ILAUD (International Laboratory of Architecture and Urbanism) scholarship

University of Genoa - Genoa - IT

1981

Classic High school diploma

56/60

Liceo Ginnasio 'Istituto Arecco' - Genoa - IT

Academic experience

2017

Full professor of Technology of Architecture

University of Genoa - Genoa - IT

Head of the Master's Degree in Architecture. Member of the Board of the Polytechnic Library

2005 - 2017

Associate Professor of Technology of Architecture

University of Genoa - Genoa - IT

1999 - 2005

Assistant Professor of Technology of Architecture

University of Genoa - Genoa - IT

1995 - 1997

Post-doctoral fellow

University of Rome 3 - Rome - IT

Language skills

English

Proficient

French

Basic

Teaching activity

The teaching activity takes place simultaneously on the three training cycles (first, second and third) both in the current ordering of studies and in previous legal systems. She also plays an active role in the field of vocational training (Long Life Learning). She currently teaches:

- 'Fundamentals and practices of technology', 8 credits, in the bachelor programme in Architectural Sciences (first cycle)
- 'Culture of Technological Design', 3 credits, in the master's degree course in Architecture
- 'Technology of renovation and restoration', 3 credits, in the master's degree courses in Architecture and in Engineering for Building Retrofitting (second cycle)
- Building recovery technology (3 credits) in the Post-Graduate Programme in Architectural Heritage and Landscape (third cycle).

The teaching in the first cycle (held continuously since 2006) is of a fundamental and compulsory nature, carried out using traditional methods (ex cathedra lessons) and with the participation of experts. Practical experiments ('learning by doing') carried out at the *Scuola Edile Genovese* have been combined with traditional teaching.

The teaching given to the second cycle of training focuses on the technological design for the recovery and enhancement of the built environment, and provides for theoretical, methodological and technical in-depth studies and design experiments, integrated with atelier. To enable students to face a project up to the executive scale, in-depth seminars are held by external specialists.

The commitment of pedagogical research on the topics of teaching and training in architecture, both nationally and internationally, is evidenced by the participation in meetings and activities of the thematic sub-networks EAAE (European Association for Architectural Education) - ENHSA (European Network of Heads of the Schools of Architecture) dedicated to the teaching of the 'Construction' and to the teaching of the 'Conservation' in the Schools of European Architecture. His commitment is evidenced by the participation in various European programs and the organization of the international conference held in Genoa in 2009 dedicated to experimentation and integration in the teaching of the disciplines of construction and architectural design. In 2009, she participated in the competition for the best writings on architecture teaching, banned by EAAE, centered on the theme of sustainability and responsibility, obtaining a prize and the mention for a writing dedicated to the redevelopment of the heritage of the

twentieth century (*Acting upon the recent inheritance Sustainability and responsibility towards the contemporary*, 2010).

Among the initiatives to promote teaching activities and research in the field of disciplinary teaching we highlight: - Erasmus Plus 'Confronting Wicked Problems: Adapting Architectural Education to the New Situation in Europe - Think Tank Heritage' (2014-2017)

- Erasmus Mundus 'ARCHI-MUNDUS: Building up Quality in Architectural Education' (2009-2013).

She is responsible for Erasmus agreements with the University of Liège, KU Leuven, UCL Louvain.

Postgraduate research and teaching activity

Supervision of PhD students, residents and post-doctoral fellows

Activities within the Post-Graduate School in Architectural Heritage and Landscape

Since 1998 she has been teaching *Technology of Building Recovery*, 3 credits, in the second year of the course.

Since 2015 she is Director of the same School. She coordinates the didactic activities, the research activities, the training activities related to lifelong learning, she is tutor of the final thesis to achieve the title of Specialist.

The School, active in Genoa since 1994, offers a professional preparation in the field of architectural restoration, offering a thorough knowledge of methods and techniques for the protection and active conservation of architectural and landscape heritage. The educational program, lasting two years, is articulated in a first year focused on the analytical techniques of architecture and a second year focused on methods of conservation, principles of restoration and design experimentation. During each cycle, in agreement with public bodies or private owners, the students work on a real object (usually a part or an entire architectural complex) to arrive at the elaboration, at the end of the second year, of a complete restoration project even with the necessary documents for its realization.

Supervision activity of research grant holders

In 2019-2020 she is scientific responsible of the research grant entitled '*Heritage and digital tools. Studies and researches on built heritage. Knowledge, safeguard and enhancement*', JPI CH CONSECH 20.

In 2018 she is scientific responsible of the research grant entitled '*Studies and research on the needs and requirements of the library of the future. Problems with the adaptation of existing structures and spaces, including monumental ones*', on funds from the University of Genoa.

From 2013 to 2015 she was the scientific responsible of the research grant entitled '*Smart grid: the 'intelligent' management of the monumental historical heritage*', Advanced training projects related to the funding of research grants on the CRO PO European Social Fund Regione Liguria 2007-2013 Axis IV 'Human Capital' ob.specific I / 6 of the public notice approved by DGR 1283/2011.

From 2008 to 2010 she was the scientific responsible of the research grant entitled '*Energy efficiency of the building envelope. Research for the integration between border technologies on eco-sustainable energy saving and good construction practices*', financed by the Municipality of Settimo Torinese (TO).

PhD committees membership

Since 2013 she is a member of the Teaching Board in the PhD Course in '*Preservation of Architectural Heritage*' at the Politecnico of Milano, DASTU Department, Coordinator prof. Maria Cristina Giambruno. She's been, and actually is, supervisor of several PhD thesis.

In the years 2010-2012 she was a member of the Teaching Board in the PhD course in '*Evaluation methods for integrated conservation, recovery, maintenance and management of architectural, urban and environmental heritage*' (administrative headquarters of the University of Naples Federico II, partner offices of the University of Genoa, University of Palermo), coordinator prof. Luigi Fusco Girard.

In the years 2001-2010 she was a member of the Teaching Board in the PhD course in '*Building and Environmental Recovery*' (administrative offices of the University of Genoa, up to the seventeenth cycle and then the University of Naples Federico II, affiliated universities Studies of Genoa, University of Palermo), coordinators prof. arch. Ing. Gianni V. Galliani and Gabriella Caterina (from the 18th cycle).

Within the doctoral activities he held specialist seminars, followed as tutor supervisor numerous theses, participated in selection commissions for admission to doctoral courses and for the final exam.

Research interests

The main field of interest in research activities is the architectural and environmental heritage analyzed in its constructive, technological and environmental characteristics, with attention to the system and to the context and to the themes of recovery, reuse and valorisation. The main lines of research are shown below.

1) The study of traditional technologies and pre-industrial building systems, methods and techniques of recovery and maintenance

The research activity, carried out starting from the doctoral thesis, is developed around the problems of knowledge and management of the traditional built heritage, analyzed in its constructive, technological and environmental characteristics and with reference to the reasons and the ways of its recovery, reuse and management. Specific studies and research have been developed on the heritage of traditional and widespread constructions, for their sustainable recovery and respectful of the constructive and formal features, for the active protection of the territory and of the rural settlements (research commissioned by the Municipality of Genoa, Regional Parks Authorities and national, Liguria and Piedmont Regions and published in Guidelines for renovation and recovery).

2) Architecture of the form: matter, materials and ways of connections

The interest in the architectural design, in its physical, material, formal and

semantic dimensions, also emerges from research activities oriented to the exploration of constructive detail, in the dual role of 'technological system' and 'formal expression'. See her role in the design of the equipment of an archaeological park in southern Turkey as part of the FIRB 2003 project *New methodologies related to integrated projects of archaeological parks in the Mediterranean area (Tilmen Höyük)*.

3) Maintenance and refurbishment of newly built heritage

This line of research includes studies on the recent construction heritage (20th century), on its constructive and architectural characteristics, on the problems of physical and functional obsolescence and on the techniques and methods for its recovery and redevelopment. This also entailed the opening towards the topics of energy saving and efficiency, maintenance and planned conservation, an activity in which integration with different disciplinary knowledge took on particular importance. The skills acquired also concern the themes specifically related to the intervention on the heritage of the Modern Movement, also thanks to the activities carried out within the *Docomomo* association with important repercussions as in the project for the functional adaptation of the Museum of the Treasury of the Cathedral of S. Lorenzo di Genova (designed by Franco Albini), for which she coordinated the phase of constructive analysis and design processing of new interventions.

4) Sustainability, energy and heritage

The most recent research activities include works specifically dedicated to the eco-efficiency of buildings in historic settings and landscapes of great value and delicacy as follows: 1) the research commissioned by the Regional Directorate for Cultural Heritage and Landscape of Liguria aimed at the drafting of guidelines for the eco-efficiency of traditional rural buildings in the UNESCO site Cinque Terre, Portovenere and Islands; 2) the '*Smart grid: intelligent management of monumental heritage*' project, carried out in collaboration with *Ansaldo Energia*, which led to a feasibility study for the complete reuse of the *Albergo dei Poveri* and the upgrading of its 'energetic' behavior, using the most appropriate technologies for the production of co- and tri-generation energy. For these competences he is currently a member of the working group DEEP RENOVATION OF HISTORIC BUILDINGS TOWARDS LOWEST POSSIBLE ENERGY DEMAND AND CO2 EMISSION (NZEB) within the IEA program (International Energy Agency) Solar Heating and Cooling Program (Task 59 2017-2021).

5) Technological innovation for the management of recovery and enhancement processes

A further line of research, in collaboration with experts in information technology, is linked to the methods of data collecting and processing (in the phases of decision-making, design, construction and management), starting from the operational and especially interoperable possibilities offered by new GIS and BIM (Building Information Modeling) technologies. In fact, their use for built heritage requires specific adaptations since they were born for the new construction processes. Together with a research group consisting of external specialists and phd candidates, she is addressing these issues as part of the PRIN 2010/11 research program. With different objectives, but with the same interest in new technologies, has

recently concluded, in agreement with the Liguria Region and the Ministry of Cultural Heritage and Activities and Tourism, a huge research for knowledge (cataloging) and conservation / enhancement of the architectural heritage of the late twentieth century in Liguria, also through the development of specific 'smart' applications, in collaboration with the Institute of Computational Linguistics of the CNR of Pisa (see app 'LigurArch900').

Grants

2018 - ONGOING

CONSECH20 - CONSErvation of 20th century concrete Cultural Heritage in urban changing environments

European Union - BE

149.050 - Participant

CONSECH20 (the acronym for “CONSErvation of 20th century concrete Cultural Heritage in urban changing environments”) is a research project that aims at developing effective approaches for conservation and protection of 20th cent. heritage concrete buildings against the ever-changing urban impacts, taking into account both technical and social aspects. The 20th cent. concrete heritage is a major challenge for conservation both because of its remarkable architectural variety and experimental character in use of materials and technologies as well as the lack of recognition of its cultural and historical value by the wide public. These aspects together with the fast-changing urban environment, are leading causes of its deterioration and, sometimes, demolition. CONSECH20 focuses on constructions built with early concrete (until 1960) with social interest in the sense of bringing people together (e.g. for recreation, inhabiting, working) to strengthen the link between society and 20th cent. architectural heritage. CONSECH20 will (i) increase the potential of 20th cent. early concrete CH as a promotion vector for social integration and cultural tourism, (ii) contribute to the establishment and development of the notion of *Heritage Science*, a relatively new and emerging field of science that aspires to bridge the gap between humanities and applied sciences, (iii) outline new approaches to participatory monitoring and conservation/restoration for future use of modern architectural heritage by stakeholders, and (iv) outline new approaches for citizen engagement in the protection of modern architectural heritage. The project will use representative case studies of early concrete buildings in 4 of the participating countries (Cyprus, Czech Republic, Italy, and The Netherlands) that can lead to the selection of appropriate evaluation and testing scenarios.

2018 - 2020

PROTECHT2SAVE - Risk Assessment and Sustainable Protection of Cultural Heritage in Changing Environment

European Union - BE

Participant

Partners involved in the Protecht2save Project:

1. the Institute of Atmospheric Sciences and Climate - National Council of Lialian Research (LP);
2. The Institute of Theoretical and Applied Mechanics of the Czech Academy of Sciences - Prague, Czech Republic;
3. University for Continuing Education Krems Danube University Krems - Krems, Austria;
4. Crisis Management Department - Bielsko-Biala Region, Poland
5. Regional Development Agency Bielsko-Biala - Bielsko-Biala Region, Poland
6. Municipality of Fenara, Italy
7. Municipal District Praha - Troja, Prague
8. South Transdanubian Regional Development Agency Public Nonprofit Ltd., Pecs, Hungary;
9. City of Kaštela, Croatia;
- '10. Municipality of Kocevje, Slovenia

Disasters and disasters represent a risk not only for the conservation of cultural heritage but also for the cultural importance, historical and artistic values and for the safety of the visitors and of the local community. They generate negative consequences for local economies due to the loss of revenue from tourism and for the subsistence of local populations who also depend on this. The results of the Protecht2save Project will contribute to improving the superior skills public and private sectors to mitigate the impacts of climate change and natural risks on heritage cultural, on sites, structures and artefacts. The project focuses mainly on development of feasible and measurable solutions to the realization of a strategy of asset resilience cultural and entire cities (the city of Ferrara is a UNESCO World Heritage Site) to cope with such events floods and heavy rains through the application of an integrated and transnational system. Target The main one is to implement regional and local strategies on prevention, preparation and evacuation to be included in the plans (Urban Planning and Civil Protection Plans) in case of emergency. Some pilot actions will be selected based on the risk in the areas of interest and of the vulnerabilities of cultural heritage and will be used to implement and evaluate strategies developed, and to improve existing risk management plans and policies in the cities of the Union

European. Data will be input for the adaptation of local government policies by promoting strategies and improvement plans for the protection of cultural heritage.

2017 - ONGOING

IEA-SHC Task 59 DEEP RENOVATION OF HISTORIC BUILDINGS TOWARDS LOWEST POSSIBLE ENERGY DEMAND AND CO2 EMISSION (NZEB) of the IEA Solar Heating and Cooling Programme

International Energy Agency

Participant

Historic buildings make up a considerable part of our building stock (one fourth for Europe). They are the trademark of numerous cities, and they will only survive if maintained as a living space. This means, that in order to save this heritage for future generations, we need to find conservation compatible energy retrofit approaches and solutions, which allow to preserve the historic and aesthetic values while increasing comfort, lowering energy bills and minimizing environmental impact.

In the last 10 years a shift in paradigm could be observed: While in times of the first EPBD, a strong opposition from conservators and architects could be observed – “don’t touch these buildings” – there is growing a new openness, a much more constructive approach – “let’s find the right solutions together”.

Now is an important moment to identify and promote good approaches and solutions.

The Objectives of the Task are to

- Develop a solid knowledge base on how to save energy in renovation of historic and protected buildings in a cost efficient way.
- Identify the energy saving potential for protected and historic buildings according to typologies of building studied (residential, administrative, cultural...)
- Identify and assess replicable procedures on how experts can work together with integrated design to maintain both the heritage value of the building and at the same time make it energy efficient
- Identify and further develop tools which support this procedure and its single steps
- Identify and assess conservation compatible retrofit solutions in a “whole building perspective”
- Identify specifically the potential for the use of solar energy (passive and active, heating, cooling and electricity) and promote best practice solutions
- Transfer knowledge

2017 - 2020

**Cultural Heritage Interoperable Environment CHERIE
National Technological Cluster for Cultural Heritage**

'TICHE - Technological Innovation in Cultural Heritage'

Italian Ministry of Instruction University and Research - IT

36.909 - Participant

Coordinator: Univeristy of Suororsola Benincasa

Politecnico of Milan, University of Naples, Rome La Sapienza, Genova.

The project aims to conceive, set up and build an 'enabling platform' for the knowledge, management, restoration, redevelopment, securing and enhancement of cultural heritage, which allows a transition from a segmented approach, in which the The actors involved are focused on their internal processes and laboriously interact with each other, on a horizontal approach, a digital ecosystem of cultural heritage that reconnects all the actors involved in the process, enabling the exchange of information through electronic modeling technologies.

2014 - 2017

Erasmus+ Strategic Partnership project application Confronting Wicked Problems Adapting Architectural Education to the New Situation in Europe

European Union - BE

19.235 - Participant

The project involves 9 European Schools and identifies three topics: 1) Teaching Architectural Design and Professional Knowledge; 2) Sustainability; 3) Heritage. Partners of the Think tank Heritage are: CTU Faculty of Architecture in Prague, Czech Republic; Department of Sciences for Architecture, University of Genoa; Faculty of Architecture and Arts, Hasselt University, Belgium; EAAE (European Association for Architectural Education); ACE (Architects' Council Europe). The project intends to define new teaching methods and prepare new professional skills.

2013 - 2016

PRIN 2010-2011 - Built Heritage Information Modelling/Management (BHIMM)

Italian Ministry of Instruction University and Research - IT

104.176 - Participant

National Coordination prof. Stefano Della Torre, Polytechnic of Milan

Research units: Polytechnic of Milan (ABC department), Polytechnic of Turin (Prof. B. Chiaia, A. Osello), National Research Council of Bari (engineer Milella), University of Brescia (Prof. A. Ciribini), University of Rome La Sapienza (Prof. G. Carrara, D. Fiorani), University of Genoa (Prof. SF Musso).

Experimentation of actions that promote the improvement of building heritage management policies and the conservation and enhancement of Cultural Heritage, thanks to the adoption of technological and process innovation based on Building Information Modeling (BIM). The units of Genoa, Brescia, Turin and Milan are working in a coordinated way for the construction and implementation of a BIM model applied to the historical heritage and, in particular, to the complex of the Albergo dei Poveri di Genova. The results of the energy studies just concluded with the research financed by the Liguria Region will also flow into the BIM. As part of the

project activities, the candidate is in particular responsible, for the local unit, of the Work Package 3 'Methods and techniques for the management of recovery interventions'

2012 - 2015

Smart grid intelligent management of monumental heritage

Fondo Sociale Europeo Regione Liguria 2007-2013 - IT

52.000 - Pricipal investigator

The research stems from the consideration that, within the framework of the system of 'intelligent networks' that will characterize the city and the territory in the near future, the historical-architectural heritage has until now been excluded from any specific reflection. The research includes a methodological elaboration and a technical feasibility study for the construction of an 'intelligent' management system of the historical built heritage, with specific reference to the complex of the Albergo dei Poveri of Genoa, for which a 'energy' system alternative to the current conditions of use and management, based also on supply from renewable energy sources, as well as on the improvement of its thermal behavior. The results of the research were presented at international conferences and aroused the interest of editor of international journals.

2014

7th Framework Program 'Transform' Transformation Agenda for Low Carbon Cities

European Union - BE

Participant

Coordinator: Municipality of Amsterdam

Partners: Copenhagen Nordhavn, Amburgo IBA Wilhelmsburg, Amsterdam Zuidoost, Lyon Part Dieu, Aspern Seestadt a Vienna, Municipality of Genoa In charge of the Municipality of Genoa, Genoa Smart City Association, the candidate took part in the Latransfromboratorial session of 14-16 May 2014 (Intensive Laboratory Session) as an expert at the Governance working table on the project Catmed Mela Verde for the Voltri area (GE) referred to in the following point, contributing to the preparation of the final document, presented at the public conference (May 2014).

2009 - 2011

CAT-MED Change Mediterranean Metropolises Around Time Green Apple

European Union - BE

Participant

MED Pogramme 2007-2013 Transnational Programme for European Territorial Cooperation, Priority 2, Goal 4, Coordinator: Municipality of Malaga, Partners: Af-gency of urban ecology Barcelona, Valencia, Sevilla; Institut del la Méditerranée, Communauté du Pays d'Aix et Marseille; Genova, Roma, Torino; Thessalonica, Athens
Contact person for the Faculty of Architecture and coordinator of the

working groups 'Metropolitan groups.

The aim of the research is the drafting of guidelines for the design of a sustainable district and for the redevelopment of the Voltri district (Genoa). The candidate coordinated and elaborated the relative guidelines, the tables of works dedicated to the following themes:

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2005 - 2008

'Beachmed-e la gestion stratégique de la préservation des littoraux en vue dun développement durable des zone côtières de la Méditerranée'

European Union - BE

180.000 - Participant

The project intends to integrate, within a coherent operating context, the components of a typical coast management plan, namely: building short and long-term coastal risk scenarios; identification of methods of analysis and intervention for the protection of the environment and the protection of coastal settlements; operational strategies for urban coastal management in a conceptual scheme that considers conservation in an active way and in a context of sustainable development of coastal areas. The territory chosen as an object by the University of Genoa is the coastal area between the Italian-French border and the municipality of Bordighera.

2005 - 2007

New methodologies related to integrated projects of archaeological parks in the Mediterranean area. Elaboration experimentation verification of advanced technologies and transferability of results in the development of areas of significant cultural envi

MIUR - IT

96.000 - Participant

FIRB research 2003, National Coordinator prof. P. Matthiae, Operational units: University of Bologna (Prof. N. Marchetti), University of Genoa (scientific director of the local unit Prof. M.B. Spadolini)

The aim of the research program was the design and construction of an archaeological park in south-eastern Turkey and the drafting of guidelines for the design, construction and management of archaeological parks in similar sites in the Mediterranean basin according to principles of sustainability, minimum intervention, low impact and easily replicable technologies. The project of the Tilmen Höyük Park stems from a team work in response to the requirements of specialists (archaeological, historical, environmental, architectural, naturalistic, chemical-physical and social in the broader sense), focusing on understanding and suggestive perception of places. The candidate was responsible for the design of the equipment for the usability of the archaeological park of Tilmen Hoyuk (Turkey),

inaugurated in October 2007.

2004

Current and rural architecture and landscape between tradition and innovation

European Union - BE

33.700 - Participant

EU Culture Program 2000 - 2004, Project Coordinator: prof. Daniela Bosia, Polytechnic University of Turin, Partners: University of Genoa - Department of Sciences for Architecture (DSA) - Ecole d'Architecture de Lille (FR), Gdańsk University of Technology (PO), Regional Superintendency for Goods and the Cultural Activities of Liguria (Co-organisers).

The project envisaged the following main activities: survey of the studies on the characteristics of rural buildings and diffused in three different European areas in terms of history, geographical, social and economic reality, as well as ways of intervention for its sustainable and culturally acceptable recovery; establishment and management of an internet site in which the data of the reconnaissance flow together, organized as a network and intended as a support tool for recovery cases; dissemination of results through a traveling exhibition, a final conference / workshop and the publication, in at least two European languages, of tools to support the recovery and management of the protection of the investigated heritage.

The candidate took care of the organization of studies and research carried out in the local area on the theme of rural architecture, with elaboration of summary material for online consultation, providing significant contributions for the creation of the website: <http://www.eurarc.com>

2019 - ONGOING

Ricerca sul sistema dei portici del centro storico di Chiavari e delle connesse facciate volta alla loro conoscenza e conservazione e al loro restauro e futura gestione

Comune di Chiavari - IT

60.00000 - Pricipal investigator

2001 - 2004

Investimmo A decision-making tool for long term efficient investment strategies in housing maintenance and refurbishment

European Union - BE

86.391 - Participant

5th Framework Program European Project Growth 2000, key action 1.9, Coodinator: Center Scientifique and Tecnicque du Batiment (CSTB), Sophia Antipolis, Partners: Logement Francaise, EPFL Lausanne, CUEH Switzerland, ESTIA Switzerland, IBP Munich, VdW Germany, DIPARC Genoa , ENVIPARK Turin, NOA Athens, MIPAD Greece, DBUER Copenhagen, SBS Denmark, KAPE, UZ

Principal contractor and Leading Work Package. The main outcome of the

project was the construction of an IT tool to support the management, over the long term, of the twentieth century's residential heritage and the development of guidelines for the assessment of their architectural and construction quality. The software is based on evaluations, quantitative and qualitative, on the conditions of the buildings and on the possible redevelopment scenarios based on the following criteria: degradation and forecasting of the useful life cycle; economic and financial evaluations; architectural and construction safety and quality; user expectations; environmental sustainability of the various redevelopment interventions. The candidate was responsible, for the entire project, for the assessment of building safety and quality and the potential for the redevelopment of residential stocks, coordinating Work Package 6, as well as the main contributor of the Final Code of Good Practice and the Final Technical Report.

Editorial activity

From 1995 to 2001 she collaborated (with Gianni V. Galliani, Stefano F. Musso and Giorgio Mor) in the direction of the *Dictionary of Building Elements*, published by UTET, Torino 2001, in 3 volumes, for which he also wrote many entries. She edited national and international volumes (see the complete list of publications) and was a member of the editorial board of the *Journal of Civil Engineering and Architecture* and the Technical Referee Committee for the Journal *Techne Journal of Technology for Architecture and Environment* (ANVUR Scientific Journal Class A). Currently she is engaged in the following editorial activities:

- member of the scientific committee of the editorial series *'Progettare e costruire sostenibile'*, Maggioli Editore;
- member of the Scientific Committee of the journal *'Recupero'* for EdicomEdizioni editor - Sustainability Architecture Technology Training;
- member of the Scientific Committee Editor Maggioli;
- Reviewer for the journals *'Materiali e strutture'*, *'Energy Efficiency'*, *'Journal of Cultural Heritage'*, *'Restoration of Building and Monuments'*, *'Techne'* (all classified as ANVUR Scientific Journal Class A - Scientific Area Civil Engineering and Architecture rating).