

CINZIA MARIA LUISA TALAMO

CURRICULUM VITAE

Cinzia Maria Luisa Talamo

Curriculum vitae

Milan, 25.6.2020

GENERAL INFORMATION

Cinzia Maria Luisa Talamo,

born in Milan, April the 17th, 1961

EDUCATION

Ph.D. in “Technical innovation and design in architecture” at Politecnico di Milano, Ph.D. Dissertation Title: "Project culture and new tools" dealing with the tools supporting the design process in relation to the maintenance phase (1994).

Master Degree (five years program) in Architecture at Politecnico di Milano (degree with honours). Dissertation Title: CAAD and energy conscious design: experiences with personal computer. Supervisor is the Professor Gianni Scudo (1987).

PROFESSIONAL CERTIFICATIONS

Passed the government exam and licensed as a professional architect in 1989.

CURRENT ACADEMIC POSITION

Full Professor at the Department of Architecture, Built Environment and Construction Engineering (ABC) of Politecnico di Milano, scientific sector ICAR/12 _Tecnologia dell'Architettura (Architecture technology).

PAST ACADEMIC AND PROFESSIONAL POSITIONS

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|-------------|--|
| 2003-2016 | Associate Professor (confirmed 2006) at the ABC Department of Politecnico di Milano, scientific sector ICAR/12 _Tecnologia dell'Architettura (Architecture technology). |
| 1998 - 2003 | Assistant professor in the scientific sector H09B (Building technology) at the Di.Tec department of Politecnico di Milano. |
| 1995 -1997 | Grant holder for a two years postdoctoral research in Politecnico di Milano dealing with the subject of new jobs and competences in the field of planned maintenance. |
| 1994 | Grant holder for the development of a one-year research dealing with training in the services for real estate management, financed by CNR (National research centre). |
| 1991 -1994 | Ph.D. student in “Technical innovation and design in architecture” engaged in the issues related to the governance of complex projects and the operations and maintenance phase. |
| 1990 - 1991 | Laboratory technician at the Laboratory of Information Technologies of PPPE department in Politecnico di Milano. |
| 1987 – 1991 | Involved, with different roles, in scientific researches, working in the groups of prof. Guido Nardi, prof. C.Molinari and prof. G.Scudo in Politecnico di Milano, first at the department PPPE (Programmazione, Progettazione e Produzione Edilizia Programming, Design and construction), later named DI.Tec (Industrial Design and Architectural Technology), then BEST (Building & Environment Science & Technology) and, finally, ABC (Architecture, Built environment and Construction engineering). |

1987-1991 Consultant for the ANIT (Associazione Nazionale Isolamento Termico _ National Association for Thermal and Acoustic Insulation).

RELEVANT CURRENT AND PAST ROLES IN ORGANIZATIONS WITHIN POLITECNICO DI MILANO

Since 1998 she is involved, with different roles and responsibilities, in boards and other structures of the School of Architecture and Society (formerly Faculty of Architecture and Society) dealing with: the planning and management of educational activities, the management of internships (SAT-Internship academic structure), qualification of tutors and temporary teaching positions (didactic commission), the design of specific tracks for the education programmes (the bachelor of science programme in ITEA-Building Engineering and Technology for Architecture, the bachelor of science programme in APE-Architecture and Building Construction, the Master of science Degree in Management of the Built Environment).

2020 – present Member of the Academic Senate

2015 – 2019 Coordinator of the Scientific Commission of the ABC Department.

2007 - 2015 Member of the Board (Giunta) of the School of Architecture and Society (formerly Faculty of Architecture and Society).

2007-2015 Member of the Board of the bachelor of science programme in Architecture and Building Construction.

2013 - 2015 Member of the Board (Giunta) of the ABC Department.

2015 - 2016 Co-coordinator of the bachelor of science programme ITEA.

2005 - 2010 Member of the didactic commission of the BEST Department.

2003 -2011 Responsible for SAT (Strutture Accademiche Tirocini) (Internship academic structure) for the bachelor of science programme in Architecture and Building construction.

2002 - 2003 Member of the Board (Giunta) of the BEST Department.

1998 -2015 Supports, as co-coordinator, the coordinators (proff. A.Scoccimarro, C.Baldi, S.Mattia, E.Mussinelli) of the bachelor of science programme in Architecture and Building construction for the activities of planning and management of educational and teaching programmes.

CURRENT AND PAST RELEVANT ROLES IN STANDARDIZATION ACTIVITIES

2015 - present President (chairperson) of the Sub Committee U/CT025/SC03 “Maintenance of real estate and facility” in UNI (Ente italiano di unificazione_ Italian standardization body).

2016 - present Delegate of the Sub Committee U/CT025/SC03 in the Working group 2 (GL2) “Risk management” of the technical committee UNI CT 043 "Safety of society and of the citizen" joint with CT 56 CEI "Reliability" in UNI (Ente italiano di unificazione_ Italian standardization body).

1999 - 2015 Coordinator/member of various working groups in UNI (Ente italiano di unificazione_ Italian standardization body) working at the issue of Italian standards in the field of building maintenance.

CURRENT ROLES IN SCIENTIFIC COMMITTEES

- Member of the scientific committee of the series “Architecture & Innovation” directed by prof. Michele di Sivo for Franco Angeli publisher.
- Member of the scientific committee of the series “Technology and Management for Building and Environment” directed by prof. Oliviero Tronconi for Aracne editore publisher.
- Member of the scientific committee of the scientific journal FMI (Facility Management Italia).
- Responsible, with prof. Claudio Molinari, of the Laboratory “Training and skills” within the Terotec Association (association for the development and the dissemination of culture and practices in the field of

maintenance management and facility management).

TEACHING ACTIVITIES IN UNIVERSITY COURSES

Since 1990 with continuity in Politecnico di Milano, she has been teaching Bachelor of Science and Master of Science courses concerning: architectural technology, maintenance management, information systems for facility management. In the same fields, she is Graduate Supervisor of several Bachelor of Science and Master of Science thesis.

CURRENT AND PAST ROLES IN PH.D. BOARDS WITHIN POLITECNICO DI MILANO

- 2016 -2017 Head/coordinator of the TEPAC (Tecnologia e Progetto per l'Ambiente Costruito) (Technology and design for the built environment) Ph.D. board.
- 2012 - 2018 Member of the ABC Ph.D. board.
- 2007- 2015 Member of the TEPAC (Tecnologia e Progetto per l'Ambiente Costruito) (Technology and design for the built environment) Ph.D. board.
- 2001 - 2007 Member of the PMR (Programmazione Manutenzione Riqualficazione dei sistemi edilizi ed urbani) (Planning maintenance requalification of building and urban systems) Ph.D. board.
- 1994 - 2000 Carries out activities of support in the organization of didactic activities for the Ph.D. course “Technical innovation and design in architecture”.
- 2000 - present Tutor and supervisor of several Ph.D. students’ dissertations.

TEACHING ACTIVITIES IN SPECIALIZING MASTERS, POST GRADUATE COURSES AND PROFESSIONAL TRAINING

She is teacher in several specializing Masters (1st and 2nd level), in Politecnico di Milano and in other organizations, and in postgraduate courses for the subjects of planned maintenance, information systems for facility management and maintainability evaluations for design.

CURRENT AND PAST RELEVANT ROLES IN RESEARCH ACTIVITIES WITHIN POLITECNICO DI MILANO

- 2018 –present Scientific responsible of the research (PI) Re-NetTA (Re-manufacturing Networks for Tertiary Architectures). New organisational models and tools for re-manufacturing and re-using short life components coming from tertiary buildings renewal (research funded by Fondazione Cariplo).
- Member of the research “Business ECOsystem design for sustainable settlements in Mogadishu: affordable housing, local entrepreneurship and social facilities - BECOME”. Polisocial Award,
- 2012 - 2015 Scientific responsible of the research “Maintenance processes for worship buildings”, research contract between Politecnico di Milano and CEI (Conferenza episcopale italiana_ Conference of Bishops).
- 2012 - 2015 Responsible of the Task Competence dealing with Knowledge management in processes of planned maintenance and Facility Management within the PRIN research (Scientific Research Program Of Relevant National Interest) “Built Heritage Information Modelling/Management – BHIMM” (scientific coordinator prof. S. Della Torre) (research funded by MIUR Italian Ministry of Education, Universities and Research).
- 2013 -2014 Scientific responsible of the research “The usefulness of the useless. Cross-sector recycle of waste in construction (research FARB (Finanziamento di Ateneo ricerca di base -University funding for basic research) funded by Politechnic of Milan).

- 2012 - present Scientific responsible of the research "Monitoring and evaluation of contracts in Global service for the management of university buildings" (research funded by ATE (Area Tecnico Edilizia _ Technical Area) of the Politechnic of Milan).
- 2012- 2015 Takes part in the research "INNOVANCE" on the theme of technical information for construction products for BIM (Building Information Modeling) tools (client: Ministry of Economic Development - Industry notice 2015 project leader: Edilstampo Srl; Role of Polimi: partner; internal Polimi scientific responsible: prof. Stefano Della Torre; project manager: prof. Bruno Daniotti)
- 2010 - 2011 Proposer, together with Proff. Paolo Gasparoli (Scientific responsible), Stefano Della Torre, and Giancarlo Paganin of the research "Monument to Vittorio Emanuele II in Rome. Cognitive activities preparatory for the development of a maintenance plan of the Vittoriano monument (research funded by the Italian Ministry of Heritage and Culture).
- 2010 – 2012 Scientific responsible of the research "Development of a prototype of maintenance plan" (research funded by ATE (Area Tecnico Edilizia _ Technical Area) of the Politechnic of Milan).
- 2010 – 2014 Scientific coordinator of the research group within BEST department developing the research: "Development of a quality technical specification for interventions promoted, designed and manufactured by the Consortium Casedoq" (research funded by Consortium for quality housing in the bergamo valley "Consorzio Per L'edilizia Di Qualità Della Pianura Bergamasca").
- 2010 – 2011 Scientific coordinator of the research group, within BEST department, developing the research: "Energy performance assessment of exhibition buildings in Europe" (research funded by EMECA "European Major Exhibition Centres Association").
- 2009 – 2011 Scientific coordinator of the research "Study of technological alternatives for improving the energy performance of building envelopes of buildings of the exhibition centre in Milano Fair in Rho" (research contract between Politechnic of Milan and Fiera Milano SpA).
- 2009 - 2010 Scientific responsible of the research "A research project aiming at defining strategies of enhancement of a public real estate through technological refurbishing" (research funded by EXITone company).
- 2004 - 2007 Scientific coordinator of the research group within BEST department developing the research: "Development of a model for estimating long-term cement demand in Italy" (research funded by Fondazione del Politecnico di Milano (Polytechnic foundation) for the Client AITEC "Associazione Italiana Tecnico Economica Del Cemento" (Italian Technical Economical association for Cement).
- 2003 – 2004 Member of the Interdepartmental Research Project engaging departments BEST and DIG (II and VI School of Engineering, I School of Architecture) for the proposal of the Master of science Degree in "Management of the built environment." The proposal was approved and the course of the Master of science started up in the year 2004-2005.
- 1999 - 2002 Is in the research group of the Di.Tec department coordinated by prof. A.Scoccimarro, developing the research: "Development of an information system for the maintenance management of Lombard ALER (public housing companies of Lombardia Region)" (research funded by AIRE)
- 1999 - 2002 Scientific coordinator of the research "Project of an information system for the registry and scheduled maintenance of the Real estate of the Politecnico di Milano and the realization of its computerized version (funding according to Regulations AFC ex art. 4).
- 1999 - 2000 Is in the research group coordinated by prof. V.Di Battista developing the research: "Self-evaluation form of the risk of collapse of buildings in the Lombard real estate" (research funded by Lombardy Region).
- 1999 - 2000 Scientific coordinator of the research "The conservation of urban quality and the system of interventions on the existing real estate" (research funded by Chamber of Commerce of Milan, Scientific responsible prof. Molinari C.).
- 1996 – 1998 Is in the research group coordinated by prof. G.Scudo developing the research: multimedia information system for the assessment of the operational facility as a support for didactic in the technological area (funded by the Centre for University Teaching Software Center, Metid).
- 1996 - 1998 Is in the research group coordinated by prof. C. Molinari developing the research on the topic of multimedia information system as a support for didactic in the technological area (funded by the Centre

for University Teaching Software Center, Metid).

- 1999-2000 Participates to the research "Policies, projects and techniques of rehabilitation and transformation of urban suburbs", working on the topic of decision support systems for the development of real estate policies and management strategies" (funded by Ministry of University and Scientific research MURST).
- 1994 -1995 Participates to the research, coordinate by prof. G. Nardi, "Study for the development of computerized analytical tools for assessing the convenience to the use of an innovative mixed system" (funded by National Council of Research CNR).
- 1992 - 1993 Participates to the research, coordinate by prof. G. Nardi, "Simulation of building elements" (funded by CNR).
- 1990 - 1991 Participates to the research, coordinate by prof.G. Nardi, "Heuristic design and information technologies" (funded by CNR).
- 1990 -1991 Participates to the research, coordinate by prof. C.Molinari, "Development of a multimedia system for didactic applications for the technological area" Heuristic design and information technologies" (funded by Ministry MURST).
- 1989 -1988 Participates to the research, coordinate by prof. C.Molinari, "Assessment of maintainability of building elements" (funded by Ministry of Education MPI).

PRINCIPAL RESEARCH FIELDS

Her research interests have been developed in various fields.

The main and longest-term interests are in the field of planned maintenance and facility management, developing researches in the areas of:

- Building maintenance manuals and programs (structure, application procedures, organization of information, data bases);
- Urban maintenance (facility management services for urban assets and networks, organization of information);
- Organizational models for building and urban facility management;
- Inventory and registries for knowledge management of built assets (data bases, procedures, relation with information systems);
- Information systems for Real Estate management;
- BIM (Building Information Modelling) application in operations and maintenance phase of the building process;
- Knowledge management for the enhancement of Real Estate;
- The maintainability requirement in the design phase of the building process;
- Big Data and IoT (internet of things) for the management of built assets at the urban scale.

Connected with the studies in the field of maintenance there are interests in the field of energy retrofit, especially in the area of simulation and comparison of technical solutions for the improvement of the thermal behaviours of existing buildings.

At the beginning of her research activities, she studied in depth for several years the relationship between heuristic project and information technologies, investigating the possible influences of computer on creative processes during the design phase.

A recent area of interest is related to waste recycling strategies and procedures, developing studies and researches regarding:

- Strategies for the improvement of waste recycling in the field of marble sector (environmental assessment methodologies, analysis of processes);
- Cross sector waste recycling in the perspective of industrial symbiosis and circular economy;
- Knowledge management for the waste recycling.

The experiences and the knowledge developed within the various fields of research, especially those regarding maintenance management, have been transferred and disseminated in other areas of activity, such as publications, teaching in university courses, specializing Masters and continuing education and writing of UNI standards.

BACHELOR AND MASTER OF SCIENCE COURSES

2019-2020, 2019-2018, 2018-2017

Bachelor of Science

- ❑ Course of TECHNOLOGICAL DESIGN ARCHITECTURE (module 8 ECTS) within the Workshop course BUILDING TECHNOLOGY STUDIO (12 ECTS) (responsible for the whole course), School of Architecture Urban Planning Construction Engineering.
- ❑ Course of PROCESSES, TOOLS AND METHODS OF BUILDING MAINTENANCE (module 6 ECTS) within the integrated course Maintenance and Restoration (10 ECTS); School of Architecture Urban Planning Construction Engineering
- ❑ **Master of Science**
Course of INFORMATION SYSTEMS FOR THE MAINTENANCE AND MANAGEMENT (9 ECTS), School of Architecture Urban Planning Construction Engineering .

2016-2017

- ❑ Course of TECHNOLOGICAL DESIGN ARCHITECTURE (module 8 ECTS) within the Workshop course BUILDING TECHNOLOGY STUDIO (12 ECTS) (responsible for the whole course), School of Architecture Urban Planning Construction Engineering.
- ❑ Course of PROCESSES, TOOLS AND METHODS OF BUILDING MAINTENANCE (module 6 ECTS) within the integrated course Maintenance and Restoration (10 ECTS); School of Architecture Urban Planning Construction Engineering
- ❑ **Master of Science**
❑ Course of INFORMATION SYSTEMS FOR THE MAINTENANCE AND MANAGEMENT (9 ECTS), School of Architecture Urban Planning Construction Engineering .

2015-2016

Bachelor of Science

- ❑ Course of TECHNOLOGICAL DESIGN ARCHITECTURE (module 8 ECTS) within the Workshop course BUILDING TECHNOLOGY STUDIO (12 ECTS) (responsible for the whole course), School of Architecture Urban Planning Construction Engineering.
- ❑ Course of PROCESSES, TOOLS AND METHODS OF BUILDING MAINTENANCE (module 6 ECTS) within the integrated course Maintenance and Restoration (10 ECTS); School of Architecture Urban Planning Construction Engineering
- ❑ **Master of Science**
❑ Course of INFORMATION SYSTEMS FOR THE MAINTENANCE AND MANAGEMENT (9 ECTS), School of Architecture Urban Planning Construction Engineering .

2014-2015

Bachelor of Science

- ❑ Course of TECHNOLOGICAL DESIGN ARCHITECTURE (module 4 ECTS) within the Workshop laboratory BUILDING TECHNOLOGY STUDIO (12 ECTS) (responsible for the whole course), School of Architecture and Society, Architecture Science degree.
- ❑ Course of PROCESSES, TOOLS AND METHODS OF BUILDING MAINTENANCE (module 6 ECTS) within the integrated course Maintenance and Restoration (10 ECTS); School of Architecture and Society, Architecture and Building Construction degree.

Master of Science

- ❑ Course of INFORMATION SYSTEMS FOR THE MAINTENANCE AND MANAGEMENT (9 ECTS), School of Architectural Engineering, Management of Built Environment degree.

2013-2014

Bachelor of Science

- ❑ Course of TECHNOLOGICAL DESIGN ARCHITECTURE (module 4 ECTS) within the Workshop laboratory BUILDING TECHNOLOGY STUDIO (12 ECTS) (responsible for the whole course), School of Architecture and Society, Architecture Science degree.
- ❑ Course of PROCESSES, TOOLS AND METHODS OF BUILDING MAINTENANCE (module 6 ECTS) within the integrated course Maintenance and Restoration (10 ECTS); School of Architecture and Society, Architecture and Building Construction degree.

Master of Science

- ❑ Course of INFORMATION SYSTEMS FOR THE MAINTENANCE AND MANAGEMENT (9 ECTS), School of Architectural Engineering, Management of Built Environment degree.

2012-2013

Bachelor of Science

- ❑ Course of TECHNOLOGICAL DESIGN ARCHITECTURE (module 4 ECTS) within the Workshop laboratory BUILDING TECHNOLOGY STUDIO (12 ECTS) (responsible for the whole course), School of Architecture and Society, Architecture Science degree.
- ❑ Course of PROCESSES, TOOLS AND METHODS OF BUILDING MAINTENANCE (module 4 ECTS) within the integrated course Maintenance and Restoration (8 ECTS); School of Architecture and Society, Architecture and Building Construction degree.

Master of Science

- ❑ Course of INFORMATION SYSTEMS FOR THE MAINTENANCE AND MANAGEMENT (9 ECTS), School of Architectural Engineering, Management of Built Environment degree.

2011-2012

Bachelor of Science

- ❑ Course of TECHNOLOGICAL DESIGN ARCHITECTURE (module 8 ECTS) within the Workshop laboratory BUILDING TECHNOLOGY STUDIO (12 ECTS) (responsible for the whole course), School of Architecture and Society, Architecture Science degree.

- ❑ Course of PROCESSES, TOOLS AND METHODS OF BUILDING MAINTENANCE (module 4 ECTS) within the integrated course Maintenance and Restoration (8 ECTS); School of Architecture and Society, Architecture and Building Construction degree.

Master of Science

- ❑ Course of INFORMATION SYSTEMS FOR THE MAINTENANCE AND MANAGEMENT (module 5 ECTS), within the integrated course BUILDING MAINTENANCE PROCEEDINGS AND METHODS + INFORMATION SYSTEMS FOR THE MAINTENANCE AND MANAGEMENT (10 ECTS) School of Architectural Engineering, Management of Built Environment degree.

2010-2011

Bachelor of Science

- ❑ Course of TECHNOLOGICAL DESIGN ARCHITECTURE (module 8 ECTS) within the Workshop laboratory BUILDING TECHNOLOGY STUDIO (12 ECTS) (responsible for the whole course), School of Architecture and Society, Architecture Science degree.
- ❑ Course of PROCESSES, TOOLS AND METHODS OF BUILDING MAINTENANCE (module 4 ECTS) within the integrated course Maintenance and Restoration (8 ECTS); School of Architecture and Society, Architecture and Building Construction degree.

Master of Science

- ❑ Course of INFORMATION SYSTEMS FOR THE MAINTENANCE AND MANAGEMENT (module 5 ECTS), within the integrated course BUILDING MAINTENANCE PROCEEDINGS AND METHODS + INFORMATION SYSTEMS FOR THE MAINTENANCE AND MANAGEMENT (10 ECTS) School of Architectural Engineering, Management of Built Environment degree.

2010-2009

Bachelor of Science

- ❑ Course of TECHNOLOGICAL DESIGN ARCHITECTURE (module 8 ECTS) within the Workshop laboratory BUILDING TECHNOLOGY STUDIO (12 ECTS) (responsible for the whole course), Faculty of Architecture and Society, Architecture Science degree.
- ❑ Course of PROCESSES, TOOLS AND METHODS OF BUILDING MAINTENANCE (module 4 ECTS) within the integrated course Maintenance and Restoration (8 ECTS); Faculty of Architecture and Society, Architecture and Building Construction degree.

Master of Science

- ❑ Course of INFORMATION SYSTEMS FOR THE MAINTENANCE AND MANAGEMENT (module 5 ECTS), within the integrated course BUILDING MAINTENANCE PROCEEDINGS AND METHODS + INFORMATION SYSTEMS FOR THE MAINTENANCE AND MANAGEMENT (10 ECTS) Faculty of Architectural Engineering, Management of Built Environment degree.

2008-2009

Bachelor of Science

- ❑ Course of TECHNOLOGICAL DESIGN ARCHITECTURE (module 8 ECTS) within the Workshop laboratory BUILDING TECHNOLOGY STUDIO (12 ECTS) (responsible for the whole course), Faculty of Architecture and Society, Architecture Science degree.
- ❑ Course of PROCESSES, TOOLS AND METHODS OF BUILDING MAINTENANCE (module 4 ECTS) within the integrated course Maintenance and Restoration (8 ECTS); Faculty of Architecture and Society, Architecture and Building Construction degree.

Master of Science

- ❑ Course of INFORMATION SYSTEMS FOR THE MAINTENANCE AND MANAGEMENT (module 5 ECTS), within the integrated course LABORATORY OF FACILITY MANAGEMENT + INFORMATION SYSTEMS FOR THE MAINTENANCE AND MANAGEMENT (10 ECTS) Faculty of Architectural Engineering, Management of Built Environment degree.
- ❑ Course of FINAL LABORATORY FOR THE TECHNICAL MANAGEMENT OF THE BUILT ENVIRONMENT part II (3,5 ECTS), Faculty of Architectural Engineering, Management of Built Environment degree.

2007-2008

Bachelor of Science

- ❑ Course of TECHNOLOGICAL DESIGN ARCHITECTURE (module 7 ECTS) within the Workshop laboratory BUILDING TECHNOLOGY STUDIO (10 ECTS) (responsible for the whole course), Faculty of Architecture and Society, Architecture Science degree.
- ❑ Course of PROCESSES, TOOLS AND METHODS OF BUILDING MAINTENANCE (module 4 ECTS) within the integrated course Maintenance and Restoration (8 ECTS); Faculty of Architecture and Society, Architecture and Building Construction degree.

Master of Science

- ❑ FINAL LABORATORY FOR THE TECHNICAL MANAGEMENT OF THE BUILT ENVIRONMENT part II (3,5 ECTS), Faculty of Architectural Engineering, Management of Built Environment degree.

2007-2006

Bachelor of Science

- ❑ Course of TECHNOLOGICAL DESIGN ARCHITECTURE (module 7 ECTS) within the Workshop laboratory BUILDING TECHNOLOGY STUDIO (10 ECTS) (responsible for the whole course), Faculty of Architecture and Society, Architecture Science degree.
- ❑ Course of PROCESSES, TOOLS AND METHODS OF BUILDING MAINTENANCE (module 4 ECTS) within the integrated course Maintenance and Restoration (8 ECTS); Faculty of Architecture and Society, Architecture and Building Construction degree.

Master of Science

- ❑ FINAL LABORATORY FOR THE TECHNICAL MANAGEMENT OF THE BUILT ENVIRONMENT part II (3,5 ECTS), Faculty of Architectural Engineering, Management of Built Environment degree.

2005-2006

Bachelor of Science

- ❑ Course of TECHNOLOGICAL DESIGN ARCHITECTURE (module 7 ECTS) within the Workshop laboratory BUILDING TECHNOLOGY STUDIO (10 ECTS), (responsible for the whole course), School of Architecture and Society, Architecture Science degree.
- ❑ Course of PROCESSES, TOOLS AND METHODS OF BUILDING MAINTENANCE (module 4 ECTS) within the integrated course Maintenance and Restoration (8 ECTS); School of Architecture and Society, Architecture and Building Construction degree.

2004-2005

Bachelor of Science

- ❑ Course of TECHNOLOGICAL DESIGN ARCHITECTURE (module 7 ECTS) within the Workshop laboratory BUILDING TECHNOLOGY STUDIO (10 ECTS) (responsible for the whole course), School of Architecture and Society, Architecture Science degree.
- ❑ Course of PROCESSES, TOOLS AND METHODS OF BUILDING MAINTENANCE (module 4 ECTS) within the integrated course Maintenance and Restoration (8 ECTS); School of Architecture and Society, Architecture and Building Construction degree.

2003-2004

Bachelor of Science

- ❑ Course of TECHNOLOGICAL DESIGN ARCHITECTURE (module 7 ECTS) within the Workshop laboratory BUILDING TECHNOLOGY STUDIO (10 ECTS) (responsible for the whole course), Faculty of Architecture, Urban Planning and Environment, Architecture Science degree.

2002-2003

Bachelor of Science

- ❑ Course TECHNOLOGICAL DESIGN ARCHITECTURE within the Workshop laboratory BUILDING TECHNOLOGY STUDIO (120 hours) (responsible for the whole course), Faculty of Architecture, Urban Planning and Environment, Architecture Science degree.

Master of Science Five years single cycle

- ❑ Course of PROCESSES AND METHODS OF BUILDING MAINTENANCE (module 30 hours) within the Final laboratory “Restoration and building and urban maintenance” (coordination prof. C.Fontana) Faculty of Architecture, Urban Planning and Environment.

2001-2002

Bachelor of Science

- ❑ Course TECHNOLOGICAL DESIGN ARCHITECTURE within the Workshop laboratory BUILDING TECHNOLOGY STUDIO (120 hours) (responsible for the whole course), Faculty of Architecture, Urban Planning and Environment.

Master of Science Five years single cycle

- ❑ Course of PROCESSES AND METHODS OF BUILDING MAINTENANCE (module 30 hours) within the Final laboratory “Restoration and building and urban maintenance” (coordination prof. V. Di Battista) Faculty of Architecture, Urban Planning and Environment.

2000-2001

- ❑ One year maternity leave.

1999-2000

Bachelor of Science

- ❑ Course TECHNOLOGICAL DESIGN ARCHITECTURE within the Workshop laboratory BUILDING TECHNOLOGY STUDIO (120 hours) (responsible for the whole course), Faculty of Architecture, Architecture Science Degree

Master of Science Five years single cycle

- ❑ Course of PROCESSES AND METHODS OF BUILDING MAINTENANCE (module 30 hours) within the Final laboratory "Restoration and building and urban maintenance" (coordination prof. V. Di Battista) Faculty of Architecture.

1996-1997

Master of Science Five years single cycle

- ❑ Course TECHNOLOGICAL DESIGN ARCHITECTURE within the Workshop laboratory BUILDING TECHNOLOGY STUDIO (120 hours) (responsible for the whole course), I Faculty of Architecture, Architecture Science degree.

1997-1998

Master of Science Five years single cycle

- ❑ Course TECHNOLOGICAL DESIGN ARCHITECTURE within the Workshop laboratory BUILDING TECHNOLOGY STUDIO (120 hours) (responsible for the whole course), I Faculty of Architecture, Architecture Science degree.

1998-1999

Master of Science Five years single cycle

- ❑ Course TECHNOLOGICAL DESIGN ARCHITECTURE within the Workshop laboratory BUILDING TECHNOLOGY STUDIO (120 hours) (responsible for the whole course), I Faculty of Architecture.

GRADUATE THESIS SUPERVISION

Supervision of more than 100 graduate thesis (Bachelor and Master of science)

P.H.D THESIS SUPERVISION AND TUTORING

2018

- Tutor for the Ph.D. thesis IoT Adoption for Innovation of FM Processes. Strategic Lines for FM Services Optimization and Innovation ATTA NAZLY

2017

- Tutor for the Ph.D. thesis Digital Transformation of Multidisciplinary Design Firms: A Systematic Analysis-based Approach to Change Management, BONANOMI MARCELLA MARIA MELANIA TEODORA

2016

- Tutor for the Ph.D. thesis [Enhance the Construction Industry Performance Through Lean Applications](#) MOSTAFA ABBASI within the TEPAC Ph.D. course, working on the subject of lean construction.

2012-2015

- Tutor for the Ph.D. thesis "From waste to product. Production cycles, industrial ecology and impacts on the territory. The recycle of scraps of production in the chain of natural stone " . Thesis discussed by MIGLIORE MARCO within the TEPAC Ph.D. course. (*Dallo scarto al prodotto. Cicli produttivi, ecologia industriale*

e impatti sul territorio. La valorizzazione degli scarti della filiera produttiva della pietra naturale)

2009-2012

- Tutor for the Ph.D. thesis “Risk management through the building process”. Thesis discussed by MARTANI CLAUDIO within the TEPAC Ph.D. course (in English language).
- Tutor for the Ph.D. thesis “Energy, material, time. Retrofit strategies in a life cycle assessment”. Thesis discussed by DUCOLI CHIARA within the TEPAC Ph.D. course (in English language).

2005-2008

- Tutor for the Ph.D. thesis “Maintenance and criticality '. Criteria, methods and tools for the management of the maintenance process”. Thesis discussed by PROVERBIO ELENA within the PMR Ph.D. course (*Manutenzione e criticita'. Criteri, metodi e strumenti per la gestione del processo manutentivo*).

2001-2004

- Tutor for the Ph.D. thesis “Real estate maintenance services - the measure of the "success" : development of a control and valuation system on the building maintenance services”. Thesis discussed by ALESSIA DI VIRGILIO within the PMR Ph.D. course (the thesis was the winner of the award “Parvopassu” assigned by CNIM National Maintenance Committee in 2005).

TEACHING ACTIVITIES IN SPECIALIZING MASTERS AND POST GRADUATE COURSES AND PROFESSIONAL TRAINING

TEACHING ACTIVITIES IN POST GRADUATE COURSES

- 2004 – 2016 Teacher on the topics "Building inventory and information systems" and "Planned building maintenance" in the second level Specializing Master "Master in Public Procurement and Contracts" of Politecnico di Milano (Director of the Master Prof. A. CABIDDU).
- 2011 – 2012 Teacher on the topic of "The building to be kept alive" within the series of refresher courses "The diocesan client" organized by CEI (Italian Episcopal Conference).
- 2012 Teacher on the topic “Management of data and information about real estate” within the cycle of technical seminars “Management of public real estate” (State Property Agency Agenzia del Demanio).
- 2004 Teacher on the topic of acquisition of information for the planning of building maintenance within post graduate course "The project manager of public works " organized by the Business School of the University SDA Bocconi.
- 2007 Teacher on the topic of acquisition of information for the planning of building maintenance within post graduate course "The project manager of public works" organized by the Business School of the University SDA Bocconi.
- 2008 Teacher on the topic of acquisition of information for the planning of building maintenance within post graduate course "The project manager of public works" organized by the Business School of the University SDA Bocconi.
- 2008 - 2013 Teacher on the topic "Planned building maintenance” within the “MASTER in Real Estate Finance and Development - Part Time” (Director of the Master prof. S. MATTIA).
- 2008 Teacher on the topic "Planned building maintenance and life cycle cost assessment” within the Master Real Estate - 3[^] edition (master in partnership MIP Politecnico di Milano, SDA Bocconi).

- 2008 Teacher on the topic "Due Diligence Real Estate; Dossier of the building; Maintenance registry" within the post graduate course AECM3 - Management and quality control in construction firms (director prof. B. Daniotti).
- 2006 Teacher on the topic of Planned maintenance within the post graduate Executive course "Facility Management and property management" (master organized by MIP Politecnico di Milano, responsible prof. O.Tronconi)
- 2005 Teacher on the topic of basic IT tools within the Level II Specializing Master "The planned conservation designer " organized at the Politecnico di Milano (Master director prof. S. Della Torre).
- 2004 Teacher on the topics: "Product and process: the scenario of complexity", "Techniques, tools and application areas of preliminary design stage", "Design for maintenance: techniques and instruments for the maintainability of the project", "Maintenance plan and manual" within the second level Specializing Master "Integrated strategic design for the development of architectural, urban and environmental resources" of Politecnico di Milano (Director of the Master Prof. S.Crotti).
- 2004 Teacher on the topic of "Planned maintenance" within the II level Specializing Master "Restoration of the modern architecture. Appraisal and design for the protection and the restoration of the twentieth century architecture "(Director of the Master M.A. Crippa).
- 2003 Teacher on the topics of "Standards for planned maintenance" and of "The maintenance plan" within the II level Specializing Master "Management of durability and maintenance in the building process" organized at the Polytechnic Milan (Master Director prof. P.N.Maggi).
- 2002 Planning and managing the training course "The information system for the management of the Politechnic of Milan Real estate" for the staff of the Technical office of the Politecnico di Milano. During the course gave several lectures on the topic of information systems for real estate.
- 1989-1992 Planning and managing the post graduate courses " CAAD and Architecture. Mapping and architectural design with graphics application systems for pc" within the programme of continuing education of the Politecnico di Milano. During the course gave cycle of lectures.

PUBLICATIONS

BOOKS

2019

- *Strategies for Circular Economy and Cross-sectoral Exchanges for Sustainable Building Products*. Springer, Cham, (with Migliore M, Paganin G.) (in English).
- *Invitations to Tender for Facility Management Services*, Springer, Cham. (with Atta N. (in English).

2017

- *Committenti per il futuro. Progettare e gestire edifici di culto*, Maggioli Editore (with Paganin G.)
- *Le utilità dell'inutile. Economia circolare e strategie di riciclo dei rifiuti-pre-consumo per il settore edilizio*, Maggioli (**with Migliore M.**).

2015

Knowledge Management and Information Tools for Building Maintenance and Facility Management, Springer, ISBN 978-3-319-23957-6 (with M. Bonanomi).

2011

L'organizzazione delle informazioni nei servizi di gestione immobiliare, Maggioli, Rimini, ISBN8838760993.

2006

Manutenzione e recupero, Alinea, Firenze, ISBN 88-8125-859-5 (with P.Gasparoli).

2003

Il sistema informativo immobiliare. Il caso Politecnico di Milano, Esselibri, Napoli. ISBN 88-513-0125-5.

2001

Costruire con la terra, Esselibri, Napoli ISBN 88-513-0005-4 (with B. Narici and G. Scudo).

1998

La manutenzione in edilizia. Le coordinate di una nuova professione, Maggioli, Rimini ISBN 88.387.1170.4.

1993

Poiesis, L'informatica nel progetto euristico, CittàStudi, Milano, ISBN 88-251-7066-1 (with M.Bertoldini and G. Nardi).

ESSAYS

2020

- *Re-NetTA. Re-manufacturing networks for tertiary architectures*, in *Regeneration of the Built Environment from a Circular Economy Perspective* (pp. 303-314). Springer, Cham (con Lavagna, M., Monticelli, C., Atta, N., Giorgi, S., & Viscuso, S.)
- *BECOMe—Business ECOSystem Design for Sustainable Settlements in Mogadishu*, in *Innovative Models for Sustainable Development in Emerging African Countries* (pp. 3-12). Springer, Cham. (con Bellini, O. E., Campioli, A., Del Pero, C., Talamo, C., Atta, N., & Dalla Valle, A.)
- *Circular Economy and Recycling of Pre-consumer Scraps in the Construction Sector. Cross-Sectoral Exchange Strategies for the Production of Eco-Innovative Building Products*, in *Regeneration of the Built Environment from a Circular Economy Perspective* (pp. 217-228). Springer, Cham. (con Migliore, M., Oberti, I.)
- *BIM Management Guidelines of the Construction Process for General Contractors*. In *Digital Transformation of the Design, Construction and Management Processes of the Built Environment* (pp. 189-199). Springer, Cham, (con

Viscuso, S., Zanelli A., & Arlati E.).

- *Digital Transformation in Facility Management (FM). IoT and Big Data for Service Innovation*. In *Digital Transformation of the Design, Construction and Management Processes of the Built Environment* (pp. 267-278). Springer, Cham (con Atta, N.).
- *The Impact of Digitalization on Processes and Organizational Structures of Architecture and Engineering Firms*. in *Digital Transformation of the Design, Construction and Management Processes of the Built Environment* (pp. 175-185). Springer, Cham (con Bonanomi, M. M.).

2019

- Digital transformation of the AEC sector: a systemic innovation of processes and structures in Mussinelli E., Lauria M., Tucci F., La PROduzione del PROgetto, Maggioli (con Bonanomi, M. M., Paganin G).

2018

Traiettorie di innovazione nel campo della gestione immobiliare In R. Zaccaria; G. Ferri; A. S. Pavesi (ed.), *CAMBIARE L'ABITARE COOPERANDO. Il Gestore Sociale Cooperativo infrastruttura dell'housing sociale e del welfare urbano*, Pearson Italia

Recupero e resilienza: strategie di chiusura del cerchio per il futuro dell'ambiente costruito, in M. T. Lucarelli, E. Mussinelli, L. Daglio (ed.), *Progettare Resiliente*, Maggioli Editore

2017

“La gestione delle informazioni per i processi manutentivi in ambiente BIM. Proposta di un set informativo minimo per la gestione delle informazioni utili alla manutenzione degli edifici” in Della Torre S., (ed.), “Reportage BHIMM Built Heritage Information Modeling Management” (with Bonanomi M., Paganin, G.)

2016

“Recupero e manutenzione: la ricerca incontra le esigenze dei territori / Recovery and maintenance: the research complies with local needs”, Lucarelli M.T., Mussinelli E.; Trombetta C., (Ed.) *Cluster in progress. La Tecnologia dell'architettura in rete per l'innovazione / The Architectural technology network for innovation*, Maggioli, Santarcangelo di Romagna, ISBN 9788891612496, pp. 246-257 (with M. R.Pinto) (in Italian and English).

2015

The strategic role of the functional analysis in the inclusive and participatory design of the built environment. In *Abitare Insieme. Living Together*. (pp. 1223-1234). Clean Edizioni.(with Atta, N., Paganin, G.).

2014

“Il Documento Preliminare alla Progettazione. Lo strumento della Committenza per orientare e controllare la qualità dell'intervento”, in Paganin G. (Ed.), *Dalla terra al cielo. Concepire, realizzare, gestire edifici di culto*, Gangemi, Roma, 2014, pp. 111-151, ISBN 9788849228847.

2013

“Rivitalizzazione dei centri storici e progetto della conoscenza”, in Castagneto F., Fiore V., *Recupero valorizzazione manutenzione nei centri storici*, LetteraVentidue, Siracusa, 2013, pp.18-21, ISBN 9788862420846.

2012

“Informazione e ciclo di vita dell'opera pubblica (SgIOP)”, in Alaimo G., Carbonari A., et al. (Ed.), *The missing Brick: towards a 21-st century Built Environment Industry*, MAGGIOLI, Santarcangelo di Romagna, 2012, pp. 559-578, ISBN 8838761647 (with F.Vitola and G.Paganin) (in Italian and English).

2011

- “Attività propedeutiche alla stesura di un piano di manutenzione e gestione”, in Cecchi R. (Ed.), *Interventi per la tutela e la fruizione del patrimonio archeologico. Terzo rapporto*. Volume secondo, ELECTA MONDADORI, Milano, pp. 483-49, ISBN 9788837087371 (with Cecchi R., P.Gasparoli, G.Paganin).
- “Attività propedeutiche alla stesura di un Piano di Manutenzione e Gestione per il Vittoriano, Roma” in Cecchi R., Gasparoli P. (Ed.), *La manutenzione programmata dei beni culturali edificati*, Alinea, Firenze, pp. 267-290, ISBN 9788860556684 (with Paganin G., Gasparoli P., Cecchi R.).

2010

- “Il piano di manutenzione e la normativa volontaria: dalla norma quadro UNI 10604:1997 fino alla norma UNI 11257:2007 Linee di indirizzo per la realizzazione di piani e programmi di manutenzione”, in Talamo C. (Ed.), *Procedimenti e metodi della manutenzione edilizia. Il piano di manutenzione*, Vol.II, Esselibri-Simone, Napoli, pp.19-29, ISBN 9788851306816.
- “Il piano di manutenzione e il progetto di riqualificazione: il sistema delle relazioni”, in Talamo C. (Ed.), *Procedimenti e metodi della manutenzione edilizia. Il piano di manutenzione*, Vol.II, Esselibri-Simone, Napoli, pp.43-58, ISBN 9788851306816 (with P.Gasparoli).
- “Il piano di manutenzione come strumento di gestione della manutenzione: caratteristiche e ambiti di applicazione”, in Talamo C. (Ed.), *Procedimenti e metodi della manutenzione edilizia. Il piano di manutenzione*, Vol.II, Esselibri-Simone, Napoli, pp.161-180, ISBN 9788851306816.
- “La procedura di elaborazione del piano di manutenzione”, in Talamo C. (Ed.), *Procedimenti e metodi della manutenzione edilizia. Il piano di manutenzione*, Vol.II, Esselibri-Simone, Napoli, pp.181-230, ISBN 9788851306816.

2009

“Costruzione di un sistema di supporto decisionale”, in Bigotti E. (Ed.), *Il servizio abitativo sociale. Nuovi sistemi per valorizzare l'edilizia residenziale pubblica e promuovere le politiche dell'Housing Sociale*, il Sole24 ore, Milano, pp.137-156, ISBN 9788832473971 (with V.Cipriano, G.Paganin).

2008

- “Conoscere per gestire: il contributo delle basi di dati nella pianificazione della manutenzione”, in Talamo C. (Ed.), *La manutenzione degli edifici. 250 schede pratiche*, Sistemi Editoriali, Napoli, ISBN:9788851305314, Italian edition of Albano J.R., *La maintenance des bâtiments: en 250 fiches pratiques*.
- “Corso di laurea Magistrale interfacoltà in “Gestione del Costruito”, in Fiore V. (Ed.), *Manutenzione. Costruire le regole di un processo virtuoso*, LetteraVentidue, vol.II, Siracusa, pp.68-70, ISBN 978-88-6242-007-5, (with Molinari C., Paganin G.).
- “Formazione per il servizio di manutenzione: analisi della domanda e dell’offerta formativa e modelli didattici innovativi”, in Fiore V. (Ed.), *Manutenzione. Costruire le regole di un processo virtuoso*, LetteraVentidue, vol.II, Siracusa, pp.72-73, ISBN 978-88-6242-007-5., (with Molinari C., Paganin G., Curcio S., Balducci M.).
- “La cultura della manutenzione nella formazione e nella ricerca. Esperienze di tesi di laurea presso la facoltà di Architettura e società del Politecnico di Milano”, in Fiore V. (Ed.), *Manutenzione. Costruire le regole di un processo virtuoso*, LetteraVentidue, vol.II, Siracusa, pp.75-76, ISBN 978-88-6242-007-5 (with Molinari C., Paganin G., Proverbio E.).

2007

- “Manutenzione e riqualificazione”, in Fiore V. (Ed.), *La cultura della manutenzione nel progetto edilizio e urbano*, Lettera ventidue edizioni, Bagheria, 2007, pp. 38-45, ISBN 978-88-6242-000-6 (with Gasparoli P.).
- “Strategie per la gestione: criteri e metodi per la definizione della criticità nella pianificazione della manutenzione”, Fiore V. , (Ed.), *La cultura della manutenzione nel progetto edilizio e urbano*, Lettera ventidue edizioni, Bagheria, 2007, pp.60-65, ISBN 978-88-6242-000-6, (with Molinari C., Paganin G., Minati G., Proverbio E.).
- “Verso la manutenzione urbana. Cultura e mercato tra innovazione e problematicità”, in Fiore V. (Ed.), *La cultura della manutenzione nel progetto edilizio e urbano*, Lettera ventidue edizioni, Bagheria, 2007, pp. 242-247, ISBN 978-88-6242-000-6, (with, Molinari C., Caterina G., Paganin G., Curcio S.).
- “Il progetto e la gestione della qualità nei processi di Global Service”, in Fiore V. (Ed.), *La cultura della manutenzione nel progetto edilizio e urbano*, Lettera ventidue edizioni, Bagheria, 2007, pp. 398-402, ISBN 978-88-6242-000-6 (with C., Molinari C., Caterina G., Paganin G., Curcio S.).
- “L'innovazione nella normativa tecnica per i patrimoni immobiliari. Dai piani di manutenzione al Global Service”, in Fiore V. (Ed.), *La cultura della manutenzione nel progetto edilizio e urbano*, Lettera ventidue edizioni, Bagheria, 2007, pp.88-93, ISBN 978-88-6242-000-6 (with Molinari C., Caterina G., Paganin G., Curcio S.).

2006

“Il circuito decisionale del progetto: requisiti, proprietà dei materiali e prestazioni degli elementi costruttivi”, in Molinari C., *Elementi di cultura tecnica*, Esselibri, Napoli, pp.197-214, ISBN:978-88-513-0404-1.

2005

- “Conoscere per gestire: il censimento immobiliare”, in Paganin G. (Ed.), *L’acquisizione delle informazioni per la manutenzione dei patrimoni immobiliari. La gestione immobiliare dal censimento alla due diligence tecnica*, Esselibri, Napoli, pp.13-39, ISBN:9788851303082.
- “L’audit delle attività di manutenzione”, in Paganin G. (Ed.), *L’acquisizione delle informazioni per la manutenzione dei patrimoni immobiliari*, Esselibri, Napoli, 2005, pp. 95-113, ISBN:9788851303082.
- “I modelli e i processi organizzativi per le imprese di Global service”, in Curcio S. (Ed.), *Global Service*, il Sole 24 Ore, Milano, pp. 155-192, ISBN:9788832457278 (with Paganin G.).
- “Terminologia”, in Curcio S. (Ed.) “*Global Service. Linee guida guida per l’esternalizzazione dei servizi di Facility Management per i patrimoni immobiliari e urbani*”, il Sole 24ore, Milano, 2005, pp.389-396 , ISBN:9788832457278, (with S. Curcio).

2003

- “Piano di manutenzione”, in Curcio S. (Ed.), *Lessico del Facility Management*, il Sole 24 ore, Milano, , pp. 215-230, ISBN: 88-324-5206-5.
- “Manuale di manutenzione”, in Curcio S. (Ed.), *Lessico del Facility Management*, il Sole 24 ore, Milano, pp. 183-193, ISBN: 88-324-5206-5.
- “Censimento immobiliare”, in Curcio S. (Ed.), *Lessico del Facility Management*, il Sole 24 ore, Milano, pp.83-91, ISBN: 88-324-5206-5.
- “Repertorio bibliografico”, in Curcio S. (Ed.), *Lessico del Facility Management*, il Sole 24 ore, Milano, pp.321-352, ISBN: 88-324-5206-5.
- “Glossario terminologico”, in Curcio S. (Ed.), *Lessico del Facility Management*, il Sole 24 ore, Milano, pp.3-29, ISBN: 88-324-5206-5 (with Curcio S.).

2002

“Dal disegno alla decisione: lo scenario evolutivo degli strumenti informatici per il progetto”, in Bertoldini M. (Ed.), *Saperi e saperi. Teoria e pratica nel progetto di architettura*, Clup, Milano, 2002, pp. 209-229, ISBN:9788870905670.

1999

“Itinerari tematici e bibliografici per la manutenzione”, in Curcio S. (Ed.), *Manutenzione dei patrimoni immobiliari*, Maggioli, Rimini, pp. 243-272, ISBN 88.387.1526.2.

1996

- “Cultura del progetto e nuova strumentalità”, in Talamo C. (Ed.), *Strategie per l’innovazione*, Quaderno n.1 del dottorato in Innovazione Tecnica e progetto nell’architettura, Maggioli, Rimini, 1996, pp.17-32.
- “Il circuito decisionale del progetto: requisiti, proprietà dei materiali e prestazioni degli elementi costruttivi”, in Molinari C. , *Elementi di cultura tecnica*, Maggioli, Rimini, 1996, pp.197-214, ISBN 88.387.0628.X.

1994

“Le applicazione informatiche per la progettazione”, in AA.VV., *Manuale di progettazione edilizia*, vol. III, Hoepli, Milano, 1994, pp. 83-102.

1993

- “I circuiti dell’inventiva”, in Bertoldini M., Nardi G., Talamo C. (Ed.), *Poiesis, L’informatica nel progetto euristico*, CittàStudi, Milano, pp.45-88, ISBN 88-251-7066-1.
- “Note di attualità”, in Bertoldini M., Nardi G. e Talamo C. (Ed.), *Poiesis, L’informatica nel progetto euristico*, CittàStudi, Milano, pp.273-290, ISBN 88-251-7066-1.

- “Le nuove strade dell’inventiva progettuale”, in Zapelli M. (Ed.), *Seminari di cultura tecnologica della progettazione*, CittàStudi, Milano, 1993, pp.39-66.

1991

- “Poiesis. Progetto euristico e informatica: una ricerca a carattere interdisciplinare sui rapporti tra creatività progettuale e informatica”, in AA.VV., *L’informatica per il progetto*, CittàStudi, Milano, 1991, pp.39-74, ISBN: 8825170319.
- “Studi e sperimentazioni per un laboratorio virtuale degli elementi costruttivi”, in AAVV, *L’informatica per il progetto*, CittàStudi, Milano, 1991, pp.75-94, ISBN: 8825170319 (with A. Campioli, G. Gotti, L. Pedrotti).
- “Atti mentali e percorsi informatici”, in Bertoldini M. (Ed.), *L’atto progettuale. Struttura e percorsi*, CittàStudi, Milano, 1991, pp.153-182, ISBN: 8825170211.

BOOKS EDITOR

2020

Innovative Models for Sustainable Development in Emerging African Countries, Springer (con Aste, N., Della Torre, S., Talamo, C., Adhikari, R. S., & Rossi, C.)

2017

Committenti per il futuro. Progettare e gestire edifici di culto, Maggioli Editore (con Paganin G.)

2010

Procedimenti e metodi della manutenzione edilizia, Vol.II, Esselibri, Napoli. ISBN 978-88-513-0681-6.

2008

La manutenzione degli edifici, Esselibri-Simone, Napoli, ISBN 978-88-513-0531-4, Italian edition of Albano J.R., *La maintenance des bâtiments: en 250 fiches pratiques*, Le Moniteur, Paris, 2005.

2001

Guida alla manutenzione degli edifici. 308 schede su frequenze e modalità di intervento, Maggioli, Rimini, ISBN 9788838719271, italian edition of Perret J., *Guide de la maintenance des bâtiments*, Le Moniteur, Paris, 1995.

1997

I fondamenti del costruire, McGraw-Hill, ISBN 8838607400, Italian edition of Allen E., *Fundamentals of building construction*, J.Wiley &S.,Usa, 1990 (with G. Paganin).

1996

Strategie per l’innovazione, Quaderno n.1 del dottorato in Innovazione Tecnica e progetto nell’architettura, Maggioli, Rimini.

1993

Poiesis, L’informatica nel progetto euristico, CittàStudi, Milano, ISBN 88-251-7066-1 (with Bertoldini M., Nardi G.).

CONFERENCE PROCEEDINGS

2019

“Climate change and emerging risks. Innovative urban climate services as a strategy to improve resilience of human systems”. In IOP Conference Series: Earth and Environmental Science (Vol. 329, No. 1, p. 012048). IOP Publishing (with Bernardini, C., Paganin, G.) (in English).

“Industry 4.0 for failure information management within Proactive Maintenance”. In IOP Conference Series: Earth and Environmental Science (Vol. 296, No. 1, p. 012055). IOP Publishing (with Paganin, G., Rota, F.) (in English).

“Smart cities and enabling technologies: influences on urban Facility Management services”. In IOP Conference Series: Earth and Environmental Science (Vol. 296, No. 1, p. 012047). IOP Publishing. (with Pinto, M. R., Viola, S., & Atta, N.)

(in English).

2018

“Life Cycle Thinking in decision-making for sustainability: from public policies to private businesses”, 12th Italian LCA Network Conference (with Rota, F., Lavagna, M).

2017

Sensing Technologies for the Innovation of Facility Management: a Cognitive Framework of Application in WMCAUS 2017. World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium. Abstract Collection Book, WMCAUS 2017. World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium (with Paganin G., Atta N.).

2016

- “Maintenance planning and breakdown structure techniques. Proposal of a "Building breakdown structure" methodology”, in International Conference Proceedings of *Euromaintenance 2016*, May 30th - June 1st 2016, Athens, (with Paganin G., Atta N.) (in English).
- “Information management for building maintenance and facility management: from building registry to BIM environment””, in International Conference Proceedings of *Euromaintenance 2016*, May 30th - June 1st 2016, Athens, (with Bonanomi M.) (in English).
- CIRCULAR ECONOMY IN THE BUILDING SECTOR THROUGH THE INNOVATION AND THE DEVELOPMENT OF NEW INDUSTRIAL STRATEGIES: THE ROLE OF THE INFORMATION IN THE MANAGEMENT OF BY-PRODUCTS AND WASTE. In 41st IAHS World Congress on Housing Sustainability and Innovation for the Future (pp. 1-10).
- BIM implementation in Design firms. Risk-response strategies to support change management. In 41st IAHS WORLD CONGRESS. Sustainability and Innovation for the Future (pp. 1-9). (with Bonanomi M. and Paganin, G) (in English).

2015

- “The strategic role of the functional analysis in the inclusive and participatory design of the built environment”, in International Conference Proceedings 3rd Edition of *Inhabiting the Future*, CLEAN, Napoli, pp. 1223-1234, ISBN:978-88-8497-544-7. (with Paganin G., Atta N.) (in English).
- “Management of production processes for the improvement of the environmental situation at the local level. The case of place affected by the presence of marble quarries”, in International Conference Proceedings 3rd Edition of *Inhabiting the Future*, CLEAN, Napoli, pp.1135-1145, ISBN:978-88-8497-544-7 (with Lavagna M., Migliore M.).

2014

“The reuse of waste for the improvement of environmental profile of buildings products”, in the *Proceedings of the 40th IAHS world congress on housing, Sustainable Housing Construction*, Funchal, Portogallo, December 2014, pp. 1-9, ISBN 9789899894907, (with Campioli A., Migliore M., Lavagna M., Oberti I., Paganin G.). (in English).

2013

- “Strategies for environmental improvement of marble quarry activities. A model to evaluate impacts and to support decisions”, in *Changing Needs, Adaptive Buildings, Smart Cities, Proceedings of the 39th congress of IAHS “The International Association for Housing Science”*, September 2013, Milano, ISBN 9788864930138, pp. 697-705, (with Lavagna M. e Migliore M.) (in English).
- “Design for Maintainability. Tools and procedures”, in *Changing Needs, Adaptive Buildings, Smart Cities, Adaptive Buildings, Smart Cities, Proceedings of the 39th congress of IAHS “The International Association for Housing Science”* *Changing Needs, Adaptive Buildings, Smart Cities*, September 2013, Milano, pp. 463-472, ISBN 9788864930138 (in English).
- “Quality and housing: a proposal for the construction supply chain”, in *Changing Needs, Adaptive Buildings, Smart Cities, Proceedings of the 39th congress of IAHS “The International Association for Housing Science”*, September 2013, Milano, ISBN 9788864930138, pp. 715-722 (with G.Paganin) (in English).
- “The control of uncertainty over objectives in architectural design” in *Proceedings of the SCo2013 Congress*, Milano, settembre 2013 pp. 1-6 (with C.Martani, G.Paganin) (in English).

- “Condizioni per la manutenzione: la manutenibilità e la progettazione” in *Proceedings of the CEI congress, La manutenzione programmata per l'edilizia di culto*, March 2009, Napoli pp.73-102, ISBN 9788890146855.
- “Analisi sul patrimonio edilizio per il culto: metodi e linee guida per la ricerca in *Proceedings of the CEI congress, La manutenzione programmata per l'edilizia di culto.*”, March 2009, Napoli, pp. 165-196, ISBN 9788890146855 (with G.Paganin).

2012

“Changing Habit’: A Low Impact System for Temporary Constructions”, in *Proceedings of Visions for the Future of Housing: Mega Cities*, Istanbul, Turchia, pp. 558-564, ISBN9789755614182 (with Paganin G., Agostinelli G.) (in English).

2011

“Energy retrofit strategies: the case of the Milan Trade Fair”, in *Proceedings of the 66° Congresso Nazionale ATI Università della Calabria 5-9 settembre 2011 (CS)*, pp. 1-8, ISBN 9788895267111 (with Angelotti A., Ducoli C., Luccietto S., Paganin G.) (in English).

2010

- “Real estate inventory, information management, strategies for energy rehabilitation: proposal of a tool supporting knowledge and decisions in Public Real Estate management” in *Design, Technology, Refurbishment and Management of Buildings, Proceedings of the 37TH IAHS WORLD CONGRESS ON HOUSING SCIENCE*, Santander (Spain) pp. 1-8, ISBN 9788469366578 (with G.Paganin, V.Cipriano, S.Parente) (in English).
- “The role of durability and planned maintenance in the environmental assessment of buildings”, in *Design, Technology, Refurbishment and Management of Buildings, Proceedings of the 37TH IAHS WORLD CONGRESS ON HOUSING SCIENCE*, Santander (Spain), pp. 1-8, ISBN 9788469366578 (with M.Lavagna) (in English).
- “Performance measurement and improvement of non residential buildings: carbon dioxide accounting and energy saving” in the *Proceedings of the Conference Sustainable building affordable to all. Low cost sustainable solutions*, 17th-19th March, Vilamoura (Portugal), pp. 597-604, ISBN 9789899654310 (with Paganin G., Ducoli C.) (in English).

2009

“Maintenance and criticality. Criteria, methods and tools to manage maintenance process”, in *Maintenance Management 2009. Proceedings of the Fourth International Conference on Maintenance and Facility Management*, Roma, Italy, pp.123-128, ISBN 9788895405032 (with G.Paganin, C.Molinari, E.Proverbio) (in English).

2008

“Green, energy, water. A proposal for the rehabilitation of a lake-side promenade” in *Proceedings of Environscape, B + V: 2. blu+verde international congress*, October 23rd - 24th 2008, Milano, pp.243-248, ISBN:9788838743207 (with Ferrari M., Paganin G., Paloschi S., Moressa P.) (in English).

2007

- “The management of services for buildings: an interdisciplinary research approach and experimentations”, in *Maintenance management 2007, Proceedings of the 3rd International Conference on Maintenance and Facility Management, September, 27th - 28th, Rome*, pp.65-69, ISBN: 9788895405025, (with Paganin G., Cigolini R., Villa A.) (in English).
- “Environmental quality and building maintenance: an approach based on criticality”, *Maintenance management 2007, Proceedings of the 3rd International Conference on Maintenance and Facility Management, , September, 27th - 28th, Rome*, pp.211-216, ISBN: 9788895405025 (with Paganin G., Molinari C., Proverbio E) (in English).
- Italian and european demand and offer for education and training in the field of buildings and real estate facility management services. Censiform Terotec report”, in *Maintenance management 2007, Proceedings of the Third international conference of Maintenance and Facility Management*, Roma, pp.217-221, ISBN: 9788895405025 (with Paganin G., Molinari C., Curcio S., Balducci M) (in English).
- “La gestione dei servizi agli edifici: un approccio di ricerca interdisciplinare e sperimentazioni in corso”, in *Maintenance management 2007, Proceedings of the Third international conference of Maintenance and Facility Management*, Roma, pp.143-144, ISBN: 9788895405025 (with Paganin G., Cigolini R., Villa A) (in English).
- “Qualità ambientale nella manutenzione del costruito: un approccio basato sulla criticità”, in *Maintenance*

management 2007, Proceedings of the Third international conference of Maintenance and Facility Management, Roma, pp.183-184, ISBN: 9788895405025 (with Molinari C., Paganin G. Proverbio E.) (in English).

- “Domanda e offerta di formazione in Italia e in Europa nel campo della gestione di patrimoni immobiliari e dei servizi di facility management. Il rapporto Terotec Censiform”, in *Maintenance management 2007, Proceedings of the Third international conference of Maintenance and Facility Management*, Roma, pp.185-186, ISBN: 9788895405025 (with Molinari C., Paganin G., Curcio S., Balducci M) (in English).
- “Manutenzione riqualificazione: il sistema delle relazioni”, in the *Proceedings of the Conference La cultura della manutenzione nel progetto edilizio e urbano*, may 24th-25th, Siracusa, pp. 38-45, ISBN: 9788862420006, (with Gasparoli P.) (in English).

2006

- “Adaptation to new requirements in residential buildings. Possibilities, performances and innovations of gypsum plasterboards”, in *ADAPTABLES '06, joint CIB, Tensinet, IASS, Proceedings of the International conference on Adaptability in Design Construction*, Eindhoven, 2006, pp. 57-61, ISBN: 9789072152039 (with G. Paganin, F. Boventi, A. Salomone) (in English).
- “Formazione per i servizi di manutenzione e di facility management per patrimoni immobiliari e urbani. Offerta attuale, analisi delle esperienze e proposte di nuove sperimentazioni”, in the *Proceedings of MAINTENANCE MANAGEMENT 2006, second international conference on maintenance and facility management*, Sorrento, April 2006, pp.167-168, ISBN:9788851303662 (with G. Caterina, P. De Joanna, S. Curcio, V. Fiore, C. Molinari, G. Paganin).
- “La manutenzione urbana. Stato dell’arte, scenari di innovazione, problemi aperti”, in the *Proceedings of MAINTENANCE MANAGEMENT 2006, second international conference on maintenance and facility management*, Sorrento, April 2006, pp.169-170, ISBN:9788851303662 (with Caterina G., De Joanna P., Curcio S., Fiore V., Molinari C.; Paganin G.).
- “Qualità nei processi di global service e facility management, Criteri per la pianificazione, gestione e controllo della qualità”, in the *Proceedings of MAINTENANCE MANAGEMENT 2006, second international conference on maintenance and facility management*, Sorrento, April 2006, pp. 171-172, ISBN:9788851303662 (with G. Caterina, P. De Joanna, S. Curcio, V. Fiore, C. Molinari, G. Paganin).
- Urban maintenance. State of the art, scenarios of innovation, open problems”, in the *Proceedings of MAINTENANCE MANAGEMENT 2006, second international conference on maintenance and facility management*, Sorrento, April 2006, pp.239-242, ISBN:9788851303655, (with Caterina G., De Joanna P., Curcio S., Fiore V., Molinari C.; Paganin G.) (in English).
- “Training for maintenance services and facility management for real estate and urban contexts. Report of the actual offer, analysis of experiences and proposals for new experimentations”, in the *Proceedings of MAINTENANCE MANAGEMENT 2006, second international conference on maintenance and facility management*, Sorrento, April 2006, pp.231-237, ISBN:9788851303655, (with Caterina G., De Joanna P., Curcio S., Fiore V., Molinari C., Paganin G.) (in English).
- “Quality in Global Service and facility management processes. Planning, control and assessment criteria”, in the *Proceedings of MAINTENANCE MANAGEMENT 2006, second international conference on maintenance and facility management*, Sorrento, April 2006, pp.225-230, ISBN:9788851303655 (with Caterina G., De Joanna P., Curcio S., Fiore V., Molinari C.; Paganin G.) (in English).
- “Procedures and tools for maintenance services planning and monitoring”, in the *Proceedings of CIB W70 international symposium, CHANGING USER DEMANDS ON BUILDINGS. Needs for usercycle planning and management*, 12-14 june, 2006, Trondheim, pp. 368-378, ISBN: 8275510317, (with G. Paganin) (in English).
- “Quality, safety and environmental planning in maintenance management for buildings”, in the *Proceedings of XXXIV IAHS World Congress., Sustainable Housing Design*, 20th-23th september 2006, Napoli, pp.1-9, ISBN 9788860260302, (with C. Molinari, G. Paganin, C. Talamo, E. Proverbio) (in English).

2005

- “Innovation and transfer processes in buildings management services. Organizational models, methodologies, procedures, and tools”, in *COMBINING FORCES, ADVANCING FACILITIES MANAGEMENT AND CONSTRUCTION THROUGH INNOVATION, Proceedings of the 11th joint CIB International symposium*, 13-16 June, 2005, Helsinki, Finland, pp.596-607, ISBN 9525004651 (with C. Molinari e G. Paganin). (in English).

- "Real estate inventory and decision support systems: a knowledge management methodology for maintenance planning in large properties", *Proceedings of the First International Conference on Maintenance Management for Quality Life, safety and Productivity*, Venezia April 2005, Ateneo la Sapienza, pp. 59-65, (with C. Molinari e G. Paganin) (in English).

2002

- "Information systems for real estate management", in *FACILITIES MANAGEMENT AND ASSET MAINTENANCE. Applying and Extending the Global Knowledge Base, CIB Working Commission W70, Proceedings of the 2002 Global Symposium*, 18th - 20th September 2002, Glasgow, Scotland, pp.349-362, ISBN:9781903661345 (with C. Molinari e G. Paganin) (in English).
- "Strumenti interpretativi e operativi per la manutenzione urbana: un contributo di ricerca- Interpretative and operative tools for urban maintenance: a research contribution", in Fiore V., De Joanna P. (Ed.), *Proceedings of the international congress Urban Maintenance as Strategy for Sustainable Development*, Liguori, Napoli, pp. 187-195, ISBN:8820735172.

1998

"Nuovi profili professionali: il Diploma Universitario", in the *Proceedings of the Conference L'architetto in Europa. La formazione Universitaria e nuovi orizzonti della professione*, Napoli, 23th -25th October 1998, pp.16-53 (with Scocciarro A.).

1997

"A didactic hypertextual tool for a maintenance oriented design", in the *Proceedings of the AVOCAAD First international Conference*, 10th -12th April 1997 Bruxelles, pp. 265-275, ISBN 9076101019 (with C. Molinari) (in English).

1996

"A didactic modular catalogue for maintenance managers", in *Management, Maintenance and Modernization of building Facilities, Proceedings of the CIBW70 Symposium*, Helsinki, September 2-4 1996, Finland, PP. 505-508, ISBN: 9517583583 (with C. Molinari) (in English).

1994

- "The consciousness of time evolution in quality requirements: a maintainability evaluation method for thr design of residential buildings", in the Proceedings of the IEA94 Conference, International Ergonomic Association, Toronto, 15th-19th August 1994. (in English).
- "Ipertec, Hypertext information system for dry-assembled building elements", in the Proceedings of the Ecaade conference, Glasgow 7th-10th september 1994 (with A. Campioli). (xxxmanca isbn) (in English).

1993

- "Poiesis. Heuristic design and computer science. Interdisciplinary researches and experimentations about the relation between design and computer science", in the Proceedings of Visualization and intelligent design in engineering and architecture Congress, Southampton, 28th-30th April 1993, pp.457-471. (in English).
- "Studies and experiments for a laboratory of virtual construction elements", in the Proceedings of Visualization and intelligent design in engineering and architecture Congress, Southampton, 28th-30th April 1993, pp.489-504 (with A. Campioli). (in English).

1992

"Tools for prevision in maintainability evaluation", in *the Proceedings of the Cib Conference, Innovations in management, maintenance & modernisation of buildings*, Rotterdam, 28th-30th October 1992 (with C. Molinari, G. Paganin). (in English).

JOURNAL ARTICLES

2019

- The impact of digital transformation on formal and informal organizational structures of large architecture and engineering firms. In *Engineering, Construction and Architectural Management* (con Bonanomi, M. M., Hall D. M.,

Staub-French S., Tucker, A.)

- Incertezza epistemica, gestione dei rischi e informazione: il ruolo del progetto esecutivo. *TECHNE: Journal of Technology for Architecture & Environment*, 18. (con Paganin G., Atta, N. & Rota F.)
- Project Financing in Sanità: verso il trasferimento dei rischi in *Facility Management Italia* n.37, (con Rota F.)

2018

- Migliore, M., Paganin, G., Senini, M., & Talamo, C. REUSE AND VALORIZATION OF SILT FROM AGGREGATES CRUSHING OF ALLUVIAL GRAVEL AND SAND, FOR THE MANUFACTURING OF CEMENT BASED BUILDING ELEMENTS. *Environmental Engineering & Management Journal (EEMJ)*, 17(10).
- Talamo, C., Paganin, G., Atta, N. (2018). Knowledge management and resilience of urban and territorial systems. In *TECHNE-Journal of Technology for Architecture and Environment*, (15), 124-133.
- Migliore, M., Carpinella, M., Paganin, G., Paolieri, F., & Talamo, C. (2018). INNOVATIVE USE OF SCRAP AND WASTE DERIVING FROM THE STONE AND THE CONSTRUCTION SECTOR FOR THE MANUFACTURING OF BRICKS. REVIEW OF THE INTERNATIONAL SCENARIO AND ANALYSIS OF AN ITALIAN CASE STUDY. *Environmental Engineering & Management Journal (EEMJ)*, 17(10).
- Talamo, C., Atta, N., La centrale di governo nella gestione dei servizi di Facility Management, *MANUTENZIONE. TECNICA E MANAGEMENT*
- Atta, N.; Talamo, C., Smart City & ICT: innovazione nella gestione dei servizi di FM urbano. pp.18-27. In *FACILITY MANAGEMENT ITALIA* - vol. 36

2017

- Talamo, C., Migliore, M. et al. (2017). L'USO INTEGRATO DI LCA E GIS PER FAVORIRE IL RIUSO E LA VALORIZZAZIONE DEGLI SCARTI/RIFIUTI PRE-CONSUMO PROVENIENTI DAL SETTORE INDUSTRIALE. In *Ingegneria dell'Ambiente*, 4.
- Talamo, C., Migliore, M. et al. (2017). STRATEGIES FOR THE ENVIRONMENTAL MANAGEMENT OF THE MARBLE DISTRICTS THROUGH THE INTEGRATED CONTRIBUTION OF LIFE CYCLE ASSESSMENT AND GIS. In *Italian Journal Of Engineering Geology And Environment*, 79-87.
- Talamo, C., Paganin, et al.. (2017). Energy performance of an exhibition hall in a life cycle perspective: embodied energy, operational energy and retrofit strategies. In *Energy Efficiency*, 10(6), 1343-1364.
- Migliore, M., Lavagna, M., & Talamo, C. M. L. (2017). L'USO INTEGRATO DI LCA E GIS PER FAVORIRE IL RIUSO E LA VALORIZZAZIONE DEGLI SCARTI/RIFIUTI PRE-CONSUMO PROVENIENTI DAL SETTORE INDUSTRIALE. *Ingegneria dell'Ambiente*, 4(3).
- Paganin, G., Angelotti, A., Ducoli, C., Lavagna, M., Talamo, C., & Luccietto, S. (2017). Energy performance of an exhibition hall in a life cycle perspective: embodied energy, operational energy and retrofit strategies. *Energy Efficiency*, 10(6), 1343-1364.
- Campioli, A., Lavagna, M., Migliore, M., Oberti, I., Paganin, G., & Talamo, C. (2017). L'USO INTEGRATO DI LCA E GIS PER FAVORIRE IL RIUSO E LA VALORIZZAZIONE DEGLI SCARTI/RIFIUTI PRE-CONSUMO PROVENIENTI DAL SETTORE INDUSTRIALE.
- Talamo, C., Atta, N. (2017). Il sistema degli strumenti di supporto alla manutenzione programmata. Parte 2: il piano di manutenzione, *MANUTENZIONE. TECNICA E MANAGEMENT*
- Talamo, C., & Atta, N. (2017). La manutenzione programmata in edilizia. Scenario attuale e prospettive (Prima parte). *MANUTENZIONE. TECNICA E MANAGEMENT*, 2, 66-67.
- Talamo, C., Atta, N. (2017). La manutenzione programmata in edilizia. Scenario attuale e prospettive (Seconda parte). *MANUTENZIONE. TECNICA E MANAGEMENT*, 3, 78-79.
- Talamo, C. & Atta, N. (2017). Il sistema degli strumenti di supporto alla manutenzione programmata. Parte 1: Il quadro generale. *MANUTENZIONE. TECNICA E MANAGEMENT*, 4, 86-87.

2016

- "L'integrazione delle infrastrutture urbane fisiche e digitali: il ruolo dei "Big Data"" "The integration of physical and digital urban infrastructures: the role of "Big data"", *TECHNE 11*, 2016, ISSN 2239-0243 (in Italian and

English). (with Atta N., Martani C., Paganin G.) (in Italian and English).

- Big Data e gestione efficiente dell'immobile. L'applicazione del paradigma apre nuovi scenari nel campo del Facility Management. (with Atta N.)
- DIGITAL TRANSITION IN DESIGN FIRMS: PROCESS MAPPING AND WORKFLOW MODELING. In: *First International Conference of the BIM Academic Forum*. 2016. p. 307-315. (with BONANOMI, M.)

2015

- “Intersectorial reuse of waste and scraps for the production of building products: strategies and valorization of waste”, *Environmental Engineering And Management Journal*, vol. 14 (n.7), Luglio 2015, pp. 1675-1681, ISSN:1582-9596, (with Campioli A. Lavagna M., Oberti I., Paganin G., Migliore M.) (in English).
- “La normativa volontaria a supporto dei servizi di Facility Management”, *FACILITY MANAGEMENT ITALIA*, vol. 28, pp.10-16, ISSN 1973-5340 (with Curcio S., Paganin G.).
- “Edifici di culto: il processo integrato progettazione-gestione”, *FACILITY MANAGEMENT ITALIA*, vol. 27 pp.19-27, ISSN:1973-5340 (with Russo G.).

2014

- “Integrated management of information inside maintenance processes. From the building registry to BIM systems - La gestione integrata delle informazioni nei processi manutentivi. Dall’anagrafica degli edifici ai sistemi BIM”, *TECHNE 8*, 2014 , pp. 228-240, ISSN 2239-0243 (in Italian and English).
- “La gestione integrata delle informazioni in ambiente BIM”, *MANUTENZIONE. TECNICA E MANAGEMENT*, 2014 , pp. 16-18, ISSN 1123-1084 (with Bonanomi M.).
- “BIM & FM: tra problemi aperti e prospettive di sviluppo”, *FACILITY MANAGEMENT ITALIA*, n.23 pp. 23-30, ISSN 1973-5340 (with Bonanomi M.).
- “Ecoinnovazione. La valorizzazione di scarti e rifiuti industriali pre-consumo. Le potenzialità per l'edilizia in una ricerca del Politecnico di Milano”, *Modulo*, september, pp. 474-481, ISSN 0390-1025 (with Campioli A., Lavagna M., Migliore M., Oberti I., Paganin G.).

2013

- “Changing habit’: A low impact system for temporary constructions”, *International Journal for Housing Science and Its Applications*, Volume 37, Issue 2, 2013, Pages 99-110, ISSN 01466518 (with Agostinelli, G., Paganin, G.)
- “Tools and procedures for a “maintenance oriented” design for buildings of worship - Strumenti e procedure per una progettazione “maintenance oriented” di edifici per il culto”, *TECHNE* n.6, pp. 117-124, ISSN 2239-0243 (in Italian and English).
- “The control, at the design stage, of risks related to buildings management over time - Il controllo in sede di progetto dei rischi legati alla gestione degli edifici”, *TECHNE 6*, 2013, pp. 109-116, ISSN 2239-0243 (with Martani C., Paganin G.). (in Italian and English).
- “Capitolati per i servizi di FM: uno studio sui criteri base di redazione”, *FACILITY MANAGEMENT ITALIA*, pp. 16-21, ISSN1973-5340 (with Rosa F.).
- “CNAO di Pavia: l'integrazione dei servizi manutentivi e dei flussi informativi” *FACILITY MANAGEMENT ITALIA* n. 19, pp. 28-35, ISSN 1973-5340 (with Bertola A., Frigerio A.).

2012

- “Enhancement and knowledge- Valorizzazione e conoscenza”, in *TECHNE 3*, 2012, ISSN 2240-7391 pp.122-131. (in Italian and English).
- “Il controllo nel ciclo di vita del contratto di servizi”, *FACILITY MANAGEMENT ITALIA* n. 17, pp. 17-25, ISSN 1973-5340.
- “Politecnico di Milano: ricerca e sperimentazione per il retrofit energetico degli edifici”, *FACILITY MANAGEMENT ITALIA*, n. 18, pp. 45-51, ISSN 1973-5340 (with Ducoli C.).
- “Verso un progetto della/per la manutenzione?”, *FACILITY MANAGEMENT ITALIA* n. 15, pp. 25-32, ISSN 1973-5340.

- "Valorizzazione dei patrimoni pubblici: la centralità della conoscenza", *FACILITY MANAGEMENT ITALIA* n. 16, pp. 14-19, ISSN 1973-5340 (with S.Curcio).

2011

- "Basi di conoscenza per i servizi di FM: il ruolo dell'anagrafe immobiliare ", *FACILITY MANAGEMENT ITALIA*, n.11, 2011, pp. 19-28, ISSN 1973-5340.
- "Sistemi informativi per i servizi di FM: dalla teoria alla pratica", *FACILITY MANAGEMENT ITALIA*, n.13, pp. 24-33, ISSN 1973-5340.
- "Edifici scolastici: un patrimonio in stato critico", *Facility Management Italia* n. 10, pp. 21-31, ISSN 1973-5340 (with Fianchini M.).
- "I Patrimoni immobiliari. Il contributo della normativa volontaria al consolidamento e alla diffusione della cultura manutentiva: il quadro nazionale", *U & C. UNIFICAZIONE E CERTIFICAZIONE*, vol.5, pp. 36-37 , ISSN 0394-9605 (with C.Molinari, G.Paganin).

2010

- "La centrale di governo per la gestione strategica degli appalti di servizi integrati", *FACILITY MANAGEMENT ITALIA*, n.7, 2010, pp. 14-24 , ISSN 1973-5340 (with Cipriano V.).
- "BlmA: il governo e la gestione del patrimonio pubblico statale in Germania", *FACILITY MANAGEMENT ITALIA*, n.8, pp. 28-31, ISSN 1973-5340 (with Busco Ferber E.).
- "Politecnico di Milano: il sistema di regia e di governo dell'appalto di Global Service", *FACILITY MANAGEMENT ITALIA*, n.9, pp. 40-56, ISSN 1973-5340 (with Vitola F.).
- "I campi fotovoltaici", *Trasporti & Cultura* n.26, pp. 21-29, ISSN 1971-6524.

2009

"Quali competenze per i servizi di Energy Management", *FACILITY MANAGEMENT ITALIA*, n 3, pp. 32-41, ISSN 1973-5340, (with Paganin G.).

2008

"Piani e programmi di manutenzione: le linee guida tecniche dell'UNI", *FACILITY MANAGEMENT ITALIA*, n 1, pp. 26-36, ISSN 1973-5340 (with Molinari C.).

2006

"L'offerta di formazione per il Facility management in Italia e in Europa", *FACILITY MANGEMENT ITALIA*, n.0, pp.27-34, ISSN 1973-5340.

2005

"Conoscere per gestire. L'acquisizione della conoscenza per la gestione degli edifici", in *Manutenzione. Tecnica e Management* vol. 5, Maggio 2005, pp.40-43, ISSN:1123-1084 (with Paganin G.).

2002

"Manutenzione programmata in edilizia ed evoluzione del quadro normativo", *AL*, n. 10 , ottobre 2002, pp.34-36, ISSN:1825-8182.

1996

- "Manutenzione, programmazione e controllo", *Qualità dell'abitare n.1*, gennaio-febbraio, pp.19-29.
- "La qualità quantificata", *Qualità dell'abitare n.2*, marzo-aprile, pp.44-52.
- "Nuovi approcci alla garanzia di qualità", *Qualità dell'abitare n.3*, maggio-giugno, pp. 33-38.
- "Le professioni della qualità", *L'Ufficio Tecnico*, dicembre, pp.1491-1503.

1995

"La qualità nei sistemi dinamici", *Qualità dell'abitare n.1*, Gennaio-febbraio, pp. 53-58 (with Molinari C).

1994

"Benessere e risparmio: i due parametri di riferimento per gli interventi di isolamento degli edifici", *Superfici* n.7, ottobre, pp.19-27.

1993

"CAD= Computer Aided D...", *Il nuovo cantiere* n. 6, giugno, pp.78-83 (with Molinari C., Vignati G.).

1991

"I controsoffitti", *Recuperare* n.4, maggio, pp.314-321.

1990

- "308: una legge a favore del recupero energetico", *Recuperare* n.45, gennaio-febbraio, pp.42-43.
- "Isolamento termico negli edifici esistenti", *Recuperare* n.45, gennaio-febbraio, pp.40-55, con Giancarlo Paganin.
- "Una soluzione ideale: la casa zero", *Eubios* n.6, pp.12-36.
- "Rinverdire la città", *Eubios* n.7, pp.54-56.
- "Abbaino energetico", *Recuperare*, n.47, maggio-giugno, pp.280-281.
- "Le controsoffittature. Caratteristiche e riferimenti normativi", *Recuperare* n.49, settembre-ottobre, pp. 477-479.
- "Perchè un laboratorio di informatica", *Sinopie* n.4, pp.4-20.
- "Progettazione e computer: ipotesi per un rapporto interattivo", *Sinopie* n.4, pp.42-46.
- *Sinopie* n.4, editor of the monograph about *Le attività del Laboratorio di Tecnologie Informatiche del Politecnico di Milano (The activities of the Information Technologies Laboratory)*.

1988

"Impianti autonomi", *Recuperare* n.37, settembre-ottobre, pp.586-587.

