

# Curriculum vitae

**Prof. arch. Renata Morbiducci, PhD**

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## 1. Personal Data



Renata Morbiducci

|                         |   |
|-------------------------|---|
| Place and date of birth | Genoa, Italy, 29th March, 1966  |
| Nationality             | Italian   |
| Residence               | Via Camascenza 1/4, 16030, Sori (Ge), Italy   |
| Domicile                | Via Antica Romana di Quinto 10/3a, 16166, Genoa, Italy  |
| Fiscal Code             | MRBRNT66C69D96N   |
| Email                   | <a href="mailto:renata.morbiducci@unige.it">renata.morbiducci@unige.it</a>                            |
| Maternity periods       | - from 01/10/2006 to 31/03/2007<br>- from 01/07/2002 to 01/01/2003<br>- from 01/06/1998 to 01/12/1998 |

## 2. Academic Employments

|                           |   |
|---------------------------|---|
| <b>Academic field</b>     | 08/C1 - Design and technological planning of architecture |
| <b>Academic sub-field</b> | ICAR/10 - Architectural engineering                       |

### Academic Positions Held

|  |  |
|--|--|
| From 3rd August 2017                   | Full professor in architectural engineering                    |
| From 29th December 2014                | Associate professor in architectural engineering (with tenure) |
| From February 2014<br>to December 2014 | Associate professor in architectural engineering               |
| From 2007                              | Assistant professor in architectural engineering (with tenure) |
| 2004 – 2006                            | Assistant professor in architectural engineering               |
| 2000-2002                              | Post-Doc, in structural engineering                            |

### 3. Education

|            |  |
|------------|--|
| 16/02/1999 | Ph.D., structural engineering, Politecnico Milano , 1999         |
| 12/11/1993 | Laurea degree in architecture, Università di Genova, Italy, 1993 |

### 4. Research Activity

#### 4.1. Research Topics

|                |   |
|----------------|---|
| <b>Current</b> | Analysis of new and existing constructions for the technological, functional and energy aspects |
|                | sustainable design and requalification/refurbishment  |
|                | Life Cycle Assessment (LCA)   |
|                | optimization processes for constructions  |
|                | <i>Building information modelling (BIM)</i>   |
| <b>Past</b>    | Materials and structures mechanics  |
|                | Conservation historic construction heritage   |
|                | Inverse problems and parametric identification  |

#### 4.2. Presentations (some examples, 2018-2013)

|             |   |
|-------------|---|
| <b>2018</b> | 2nd Global conference on energy and sustainable development, 18th – 20th December 2018, John McIntyre Conference Centre, the University of Edinburgh, Edinburgh, United Kingdom<br>(Conference chair) |
| <b>2017</b> | International conference, <i>beyond nzeb building</i> , 10-11 May 2017, Matera, Italy<br>(Speaker)  |
| <b>2016</b> | International forum MED.NET 3. RESILI(G)ENCE GOA RESILI(G)ENT CITY, intelligent cities / resilient landscapes, 25-28 October 2016, Genova, Italy<br>(Keynote speech)                                  |
| <b>2015</b> | COP21-Paris 2015, Conference of Parts - UN, December 2015, Paris (FR)<br>(Member of RINGO (No-Gov. delegation COP-UNFCC))   |
| <b>2014</b> | 39th World congress on housing science, 17th-20nd September 2014, Milan, Italy<br>(Speaker)   |
| <b>2013</b> | The 3rd World sustainability forum, 1-30 novembre 2013, webinar<br>(Invited speaker)  |

### 4.3. International Research Collaborations

- From 2016** Member of the international research group with Florida International University - Miami (FIU) on climate change - sea level rise. The main objectives of this collaboration are to develop international research projects and exchanges between researchers from the University of Genoa, the Polytechnic School and the Florida International University of Miami
- From 2016** Member of the international research group with the Faculty of Engineering and Architectural Science of Ryerson University, Toronto, Canada, on "sustainable requalification - innovative materials and technologies". The main objectives of this collaboration are to develop international research projects and exchanges between researchers from the University of Genoa, the Polytechnic School and the Faculty of Engineering and Architectural Science of Ryerson University, Toronto, Canada

### 4.4. Research Grants or Contracts

#### **Grant: Università degli Studi di Genova**

|                         |  |
|-------------------------|--|
| Title                   | Simulation of the 'full project cycle' applied to the pilot site of the European project EEB.ENERGY.2012.8.8.3: Renovation of Residential urban spaces: Towards nearly zero energy CITIES (R2CITIES) |
| Funding body            | FP7- Collaborative Project - European Commission   |
| Amount                  | 51.600 Euro  |
| Period                  | 2015-2016  |
| <b>Person in charge</b> |  |

#### **Grant: PO CRO European Social Funding for Liguria (Italian Region) 2007-2013**

|                         |  |
|-------------------------|--|
| Title                   | Requalification of the building/plant system in order to obtain sustainable construction with "near zero" energy consumption |
| Funding body            | European Social Funding for Liguria (Italian Region)   |
| Amount                  | 51.600 Euro  |
| Period                  | 2013-2014  |
| <b>Person in charge</b> |  |

#### **Grant: Covenant of Mayors for energy efficiency by European Union (La Spezia, Italy)**

|                         |  |
|-------------------------|--|
| Title                   | Pilot project: energy efficient social housing |
| Funding body            | European Union                                 |
| Amount                  | 15.000 Euro                                    |
| Period                  | 2013 – 2014                                    |
| <b>Person in charge</b> |  |

**Grant: Operative plan by European Union for education and training (Municipality of La Spezia, Italy)**

Title Future needs of training in the building sector: sustainability and energy efficiency of buildings

Funding body European Union

Amount 18.600 Euro

Period 2012-2013

**Person in charge**

**Grant: ASPERA enterprice**

Title Guidelines for the study of the new auditorium's sustainable design characteristics for the Italian Institute of Technology (IIT)

Funding body ASPERA

Amount 5.000 Euro

Period 2012-2013

**Member of research team**

**Agreement between Genoa City Council and Università degli Studi di Genova**

Title Sustainable requalification project of a genoa's district: the "dams" district

Funding body 2010-2011

**Member of research team**

**Agreement between Quality Building Enterprice and Università degli Studi di Genova**

Title Performance analyses of precast constructive systems

Funding body Quality Building Enterprice

Amount 9.000 Euro

Period 2006

**Person in charge**

|                         |   |
|-------------------------|---|
|                         | <b>Research Grant</b>                               |
| Title                   | Color in architecture: uses and analysis techniques |
| Funding body            | Università degli Studi di Genova                    |
| Amount                  | 5.000 Euro  |
| Period                  | 2006-2007   |
| <b>Person in charge</b> |   |

|                         |   |
|-------------------------|---|
|                         | <b>Agreement between CITTAM (Centro Interdipartimentale di ricerca per lo studio delle Tecniche Tradizionali in Area Mediterranea dell'Università degli studi di Napoli Federico II) and Università degli Studi di Genova</b> |
| Title                   | Chromatic survey methodology for the "Piano del colore" of Naples, Italy  |
| Funding body            | CITTAM  |
| Amount                  | 1.000 Euro  |
| Period                  | 2006  |
| <b>Person in charge</b> |   |

#### 4.5. Competitive Research Projects

|   |  |
|---|--|
|   | <b>EEB.ENERGY.2012.8.8.3: "Demonstration of nearly Zero Energy Building Renovation for cities and districts"</b> (European coordinator: Rubén García Pajares, Fundación CARTIF, Spain) |
| Title   | Renovation of Residential urban spaces: Towards nearly zero energy CITIES (R2CITIES)   |
| Funding body  | FP7- Collaborative Project   |
| Amount  | 636.800 Euro   |
| Period  | 2013-2018  |
| <b>Person in charge of scientific and technical/technological aspects</b> |  |

|   |   |
|---|---|
|   | <b>COST – C25</b> , European COoperation in the field of Scientific and Technical research (European coordinator: Luís Bragança, University of Minho, Portugal) |
| Title   | Sustainability of constructions. integrated approach to life-time structural engineering  |
| Funding body  | European Research Framework Programmes  |
| Amount  | Costs for the development of the research programme   |
| Period  | 2006-2010   |
| <b>Person in charge of scientific and technical/technological aspects</b> |   |

|   |  |
|---|--|
|   | <b>Project of major national interest financed by the Ministry of Education, University and Research (PRIN-MIUR) (research units: Genova, Napoli e Ancona)</b> (Marina Fumo, Università Federico II, Naples) |
| Title   | Methods to test the material and colour stability of exterior plasters and precast panels  |
| Funding body  | MIUR   |
| Amount  | 57.000 Euro  |
| Period  | 2004-2005  |
| <b>Person in charge of a research national unit</b> |  |

|                                    |  |
|------------------------------------|--|
|                                    | <b>Project of major national interest financed by the Ministry of Education, University and Research (PRIN-MIUR) (research units: Genova, Napoli, Palermo e Ferrara)</b> (national coordinator: Marina Fumo, Università Federico II, Naples) |
| Title                              | Large places and architectures of trade: proposed guidelines for the project through the analysis of the building in the Genoa's area  |
| Funding body                       | MIUR   |
| Amount                             | 63.000 Euro  |
| Period                             | 2002-2003  |
| Member of a national research unit |  |



#### 4.6. Editorial Committees of Journals, Publishing Series, Encyclopaedias and Treaties

**From 2016**

Editorial series for University Press (GUP);  
 Title: Sustainable design and construction;  
 Person in charge: C. Lepratti and R. Morbiducci  
 Scientific board: Carmen Andriani (University of Genoa, IT), Thomas Auer (Technische Universitaet Muenchen, D), Umberto Berardi (Ryerson University, Toronto, CDN), Enrico Dassori (University of Genoa, IT), Andrea Giachetta (University of Genoa, IT), Christiano Lepratti (University of Genoa, IT), Marylis Nepomechie (Florida International University – Miami, USA), Renata Morbiducci (University of Genoa, IT), Thomas Spiegelhalter (Florida International University – Miami, USA)

#### 4.7. Assignments in a PhD School

**From 2014**

Member of the College of PhD School

**From 2017**

PhD course: doctorate in architecture (dot0511840), University of Genoa  
 Tutor of PhD thesis for PhD course: doctorate in architecture (dot0511840), University of Genoa  
 Candidate: Salvatore Pastorino, XXXIII cycle  
 Title: Innovative materials for construction: experimentation and application development

**From 2016**

Tutor of PhD thesis for PhD course: doctorate in architecture (dot0511840), University of Genoa  
 Candidate: Clara Vite, XXXI cycle  
 Title: Optimisation for the design and regeneration process of constructions through decision-making methods

**2014-2016**

Tutor of PhD thesis for PhD course: doctorate in architecture (dot0511840), University of Genoa  
 Candidate: Marco Vassale, XXIX cycle  
 Title: Building information modeling, BIM: insights, applications, limit assessments, integrative proposals and strategies for large-scale dissemination

#### 4.8. International Fellowship

|                           |  |
|---------------------------|--|
| <b>Type of fellowship</b> | Structures and Environmental Technologies Lab (SET), Florida International University (FIU) - Miami - USA        |
| <b>Course</b>             | Guest Professor  |
| <b>Reference person</b>   | Digital Design Studio (D-8)  |
| <b>Period</b>             | prof. Thomas Spiegelhalter (Co-Director Structures and Environmental Technologies Lab (SET))                     |
|                           | 2016   |
| <b>Type of fellowship</b> | Structural Engineering Department of Civil Engineering, Northwestern University, Evanston, Illinois. USA         |
| <b>Course</b>             | Visiting student   |
| <b>Reference person</b>   | Biomechanics   |
| <b>Period</b>             | prof. Roberta Massabò  |
|                           | 2003   |
| <b>Type of fellowship</b> | Department of Civil, Environmental and Architectural Engineering, University of Colorado, Boulder, Colorado. USA |
| <b>Course</b>             | Visiting student   |
| <b>Reference person</b>   | Ricerca in meccanica delle murature e identificazione parametrica  |
| <b>Period</b>             | prof. Benson Shing   |
|                           | 1999   |
| <b>Type of fellowship</b> | Department of Civil, Environmental and Architectural Engineering, University of Colorado, Boulder, Colorado. USA |
| <b>Course</b>             | PhD student  |
| <b>Reference person</b>   | Ricerca in meccanica delle murature e identificazione parametrica  |
| <b>Period</b>             | prof. Benson Shing   |
|                           | 1997   |

#### 4.9. Spin off

|                     |  |
|---------------------|--|
| <b>Shareholders</b> | BuildTech srl  |
|                     | - Prof. Renata Morbiducci (DAD - Università degli Studi di Genova)             |
|                     | - Prof. Andrea Morini (DITEN - Università degli Studi di Genova)               |
|                     | - Ing. Clara Vite (dottorando del DAD - Università degli Studi di Genova)      |
|                     | - Ing. Alberto Messico (assegnista del DAD - Università degli Studi di Genova) |
|                     | - Fratello Sole scarl  |

BuildTech is an innovative startup in the construction and infrastructure sectors that intends to transfer innovative techniques and products to the design and requalification in order to create efficient and comfortable interior and exterior spaces with a positive environmental impact. We believe that design decisions can help to improve the living conditions and the environment in which we live, regardless of the indispensable economic sustainability of what we are designing and realizing. For BuildTech the sustainability is not separate to the project, but it is an indispensable component to get better the construction sector.

#### 4.10. Invited speaker

- 2018** 2nd Global conference on energy and sustainable development, 18th – 20th December 2018, John McIntyre Conference Centre, the University of Edinburgh, Edinburgh, United Kingdom (Conference chair)
- 2017** R. Morbiducci, oratore e organizzatore dell'evento: *Verso il 2030: i materiali innovativi per l'Europa sostenibile*, SUQ Festival 2017, presso Porto Antico, Genova, 24-06-2017.
- R. Morbiducci, intervento in: *Casarinnovabile.it con altroconsumo non è mai energia sprecata*, SUQ Festival 2017, presso Porto Antico, Genova, 17-06-2017.
- C. Lepratti e R. Morbiducci, oratori e organizzatori della giornata di studi: *Svolta energetica e crescita 1,5 gradi*, Dip. Architettura e Design, Università di Genova, Genova, 15-06-2017.
- R. Morbiducci, Seminario: *E ora ristrutturiamo i condomini. Normativa, incentivi, opportunità per amministratori, tecnici e cittadini*, MADE expo – Padiglione 10, Stand H24 – H30, presso Fiera Milano, Rho, 10-03-2017, Milano.
- R. Morbiducci, Giornata di divulgazione tecnica: *Il nuovo APE in Regione Liguria*, Università degli Studi di Genova in collaborazione con Logical Soft, 10-03-2017, Genova.
- 2016** R. Morbiducci, OneTeam - bim conference, Genova, *Codice Appalti e normativa UNI 11337, strumenti e best practice per il Building Information Modeling nel mondo degli edifici, delle costruzioni e del restauro*, 30 novembre 2016, Teatro Carlo Felice Genova.
- R. Morbiducci, *Progetto futuro* - Convegno di chiusura del percorso di formazione, 18 luglio 2016, ore 10.00 - 13.00, Palazzo Tobia Pallavicino, Sala del Bergamasco, Via Garibaldi 4 - Genova.
- R. Morbiducci, Congresso International Forum MED.NET 3. RESILI(G)ENCE GOA RESILI(G)ENT CITY, Intelligent Cities / Resilient Landscapes., 25-28 ottobre 2016, Genova.
- R. Morbiducci, Abracadabra - international workshop, Challenges and Opportunities of Add-Ons in Deep renovation of existing buildings, BOLOGNA, 23-24 JUNE 2016, PALAZZO MAGNANI.
- My Smart City District organises 5 Lunch Academy webinars during EUSEW, 8 giugno 2016, dal 08-06-2016 al 08-06-2016

- 2015** COP21-Paris 2015, Conference of Parts - UN, December 2015, Paris (FR) (Member of RINGO (No-Gov. delegation COP-UNFCC))
- R. Morbiducci, Nanoforum, 29 settembre - 2 ottobre, 2015, Politecnico di Milano, sede Bovisa, dal 01-10-2015 al 01-10-2015
- R. Morbiducci, 2015, Seminario – *I Pilastri della Riqualificazione Innovativa*, Auditorium dell'Acquario di Genova, area porto antico Ponte Spinola, giovedì 23 aprile 2015, Genova.
- 2014** R. Morbiducci, 2014, Seminario 1 – *Il riciclo dei materiali da costruzione*, in I primi processi concreti di Economia Circolare locale per un nuovo sviluppo del territorio, Camera di Commercio – Sala dell'Ardesia, 2 aprile, 2013, Genova.
- 2014** R. Morbiducci, 2014, *Linee guida per il recupero degli edifici storici attenzioni metodologiche, normative*, in Ristrutturare, Risanare, Riqualificare, Convegno Tecnico EdicomEdizioni, Varazze (SV), 10 aprile, 2014.
- 2013** R. Morbiducci, 2013, *La Progettazione e Riqualificazione delle Costruzioni: Aspetti tecnologici*, Smart Village, tour 2013, 22 maggio, 2013, Genova.
- The 3rd World sustainability forum, 1-30 novembre 2013, webinar (Invited speaker)
- 2012** R. Morbiducci, 2012, *Analisi comparativa delle prestazioni termoigrometriche di pannelli prefabbricati in calcestruzzo armato nelle zone climatiche italiane*, Concrete2012 IL CALCESTRUZZO PER L'EDILIZIA DEL SECONDO MILLENNIO, Progetto e tecnologia per il costruito, 25-26 ottobre, 2012, Termoli.
- 2011** E. Dassori, R. Morbiducci, 2011, *Riqualificazione Edilizia: Metodi e Applicazioni per la Sostenibilità*, Forum della Tecnica delle Costruzioni 2011, Made Expo, 5-8 ottobre, 2011, Milano.
- M. Fumo, R. Morbiducci, 2011, *Risparmio Energetico e Sostenibilità*, VI Congresso AR.TEC., Verso un sapere tecnico condiviso nella ricerca sulla progettazione e costruzione dell'edilizia, 16-17 febbraio 2011, Roma.

## 5. Teaching Experience<sup>1</sup>

### 5.1. Academic teaching experience: master post-laurea

- 2014-'15 Course: Materials and Elements for Construction  
Role: professor in charge  
Master in: Expert building designer in energy efficiency and sustainability for buildings  
Scuola Politecnica, Università di Genova
- Course: Sustainable design for construction  
Role: professor in charge  
Master in: Expert building designer in energy efficiency and sustainability for buildings  
Scuola Politecnica, Università di Genova

<sup>1</sup> Tutor co-tutor of more than 70 degree theses for the University of Genoa..

## 5.2. Academic teaching experience: academic courses

|           |   |
|-----------|---|
| From 2014 | Course: Sustainable design for architecture + lab<br>Role: professor in charge<br>Architectural Engineer<br>Scuola Politecnica, Università di Genova      |
| From 2014 | Course: Architecture and environment<br>Role: professor in charge<br>Architectural Engineer<br>Scuola Politecnica, Università di Genova                   |
| From 2012 | Course: Fundamentals of Sustainable design<br>Role: professor in charge<br>Civil Engineer<br>Scuola Politecnica, Università di Genova                     |
| 2010-2014 | Course: Design of technical details<br>Role: professor in charge<br>Architectural Engineer<br>Scuola Politecnica, Università di Genova                    |
| 2010-2013 | Course: Design of technical details<br>Role: professor in charge<br>Civil Engineer<br>Scuola Politecnica, Università di Genova                            |
| 2005-2014 | Course: Architectural engineering – II course<br>Role: professor in charge<br>Architectural Engineer<br>Scuola Politecnica, Università di Genova          |
| 2005-2014 | Course: Lab. of architectural engineering – II course<br>Role: professor in charge<br>Architectural Engineer<br>Scuola Politecnica, Università di Genova  |
| 2004-2005 | Course: Architectural engineering – I course<br>Role: professor in charge<br>Architectural Engineer<br>Scuola Politecnica, Università di Genova           |
| 2004-2005 | Course: Conservation Historic Construction Heritage<br>Role: professor in charge<br>Structural Engineer<br>Scuola Politecnica, Università di Genova       |
| 2003-2004 | Course: Lab. of architectural engineering – I course<br>Role: Professore incaricato<br>Architectural Engineer<br>Scuola Politecnica, Università di Genova |
| 2001-2003 | Course: Architectural engineering – I course<br>Role: Assistant   |

|           |   |
|-----------|---|
|           | Architectural Engineer<br>Scuola Politecnica, Università di Genova  |
| 2000-2002 | Course: Mechanics of solids<br>Role: Assistant<br>Civil Engineer<br>Scuola Politecnica, Università di Genova  |
| 2000-2001 | Course: Mechanics of solids<br>Role: Assistant<br>Civil Engineer<br>Scuola Politecnica, Università di Genova  |
| 1997-1998 | Course: Theory of structures<br>Role: Assistant<br>Civil Engineer<br>Scuola Politecnica, Università di Genova |
| 1995-1997 | Course: Mechanics of materials and fracture<br>Role: Assistant<br>Civil Engineer<br>Politecnico Milano        |
| 1995-1997 | Course: History of mechanics of solids<br>Role: Assistant<br>Civil Engineer<br>Politecnico Milano             |

### 5.3. External teaching experience

|           |   |
|-----------|---|
| 2013      | <p>Course: <b>Energy Efficiency for Buildings</b><br/>Training course, Project Energy Manager, ENEL enterprice - Enel University, Rome</p> <p>Course: <b>Sustainable Design for Buildings</b><br/>Training course Italia - Russia<br/>TICASS (Tecnologie Innovative per il Controllo Ambientale e lo Sviluppo Sostenibile), Genoa</p> |
| From 2012 | <p>Course: <b>Sustainable Design for Buildings</b><br/>Training course, Expert in Energy and Environmental Management, Genoa's Buildings School, Genoa</p> <p>Course: <b>Energy Efficiency for Buildings</b><br/>Training course, Project Energy Manager, ENEL enterprice - Enel University<br/>Enel University, Rome</p>             |
| From 2007 | <p>Course: <b>Building Technology</b><br/>Training course, Energy expert for Liguria Region, Genoa</p>  |
| 2005      | <p>Course: <b>Precast concrete technologies</b><br/>Training course, ICQ Italy India Construction Quality, New Delhi, India</p>   |
| From 2005 | <p>Course: <b>Building Technology</b><br/>Training course, Superior technician for building site management, Genoa's Buildings School, Genoa</p>  |

### 6. Academic service

|           |   |
|-----------|---|
| From 2017 | Member of the AQ (High Quality) Committee of the Engineering Bachelor, Architectural Engineering Course, Università degli Studi di Genova |
| From 2015 | Member of the Research and Technological Transfer Committee, Università degli Studi di Genova   |
| 2015-2016 | Member of the AQ (High Quality) Committee, Scuola Politecnica, Università degli Studi di Genova   |
| 2012-2016 | Member of the Research Committee, Dept. Architecture and Design (DAD), Università degli Studi di Genova                                   |
| From 2012 | Member of the Government Commission for architectural engineering professional qualification  |
| From 2004 | Member of commissions for Laurea degree in:<br>Architecture, Architectural Engineering, Cvili Engineering, Structural Engineering         |

From 2009 Member of competition commissions for technical and administrative staff of Università degli Studi di Genova

## 7. Personal skills

|                |                   |         |                    |                   |         |
|----------------|-------------------|---------|--------------------|-------------------|---------|
| Mother tongue  | Italian           |         |                    |                   |         |
| Other language | English (UK, USA) |         |                    |                   |         |
|                | UNDERSTANDING     |         | SPEAKING           |                   | WRITING |
|                | Listening         | Reading | Spoken interaction | Spoken production |         |
|                | B1/2              | C1/2    | B1/2               | B1/2              | C1/2    |

**Communication skills** Very good communication skills acquired during experiences as lecturer, teacher, professor and coordinator of national and international research projects

**Organisational / managerial skills** Very good communication skills acquired during experiences as lecturer, teacher, professor and coordinator of national and international research projects

**Job-related skills** Good professional skills acquired during experiences of consulting with third parties for the Università degli Studi di Genova and for the spin off BuildTech srl

**Computer skills** Very good communication skills acquired during experiences as lecturer, teacher, professor and coordinator of national and international research projects

**Other skills** Family management of a family nucleus made up of husband and three daughters (19,15 and 11 years old)

**Driving licence** B



## 8. Publications

### Papers in international refereed journals

- P1. C. Vite, R. Morbiducci (2018), Application of a replicable methodology for sustainable and optimized requalification projects to a large social housing building in Genoa (IT), *Architectural Engineering and Design Management Journal*, paper under review
- P2. R. Morbiducci, C. Vite (2017), Applications of an Integrated Design Methodology for Regenerative Process of the Existing Buildings, *Energy Procedia*, pp. 303-313, DOI information: 10.1016/j.egypro.2017.11.144
- P3. Enrico Dassori and Renata Morbiducci, (2013), Requalification Pilot projects of Nearly Zero Energy Building for "smart" district and cities, *TECHNE 6*, pp. 48-54, ISSN online: 2239-0243 | ISSN print 2240-7391.
- P4. Guri Krigsvoll, Marina Fumo and Renata Morbiducci (2010), National and International (ISO and CEN) Standardisation Relevant for Sustainability in Construction, *Sustainability 2010*, 2(12), 3777-3791, ISSN 2071-1050.
- P5. A. Brencich e R. Morbiducci, (2007), Brick masonry arches: historical rules and modern mechanics, *International Journal of Architectural Heritage*, 1 (2), pp.165-189, ISSN Print: 1558-3058, ISSN Online: 1558-3066.
- P6. Gambarotta, L., Massabò, R., Morbiducci, R., Raposio, G., and Santi, P., (2005), In vivo experimental testing and model identification of human scalp skin, *Journal of Biomechanics*, 38, pp. 2237-2247, ISSN: 0021-9290.
- P7. R. Morbiducci (2003). Nonlinear parameter identification of models for masonry, *International Journal Solids and Structures*, 15, 4071-4090, ISSN: 0020-7683.

### Books and book chapters

- P8. Morbiducci Renata, Vite Clara (2017). La riqualificazione sostenibile. Processi di ottimizzazione, p. 1-136, Genova: GUP, ISBN: 978-88-97752-74-5
- P9. M. Fumo, R. Morbiducci (2011), Sustainable policies and approaches: the italian case, in Luis Braganca "Cost action C25. Sustainability of constructions. Integrated approach to life-time Structural engineering" vol 1, Gutenberg Press Ltd, Malta, ISBN978-999-57-816-1-3. pp. 119-123.
- P10. E. Dassori e R. Morbiducci (2010), *Costruire l'architettura*, Editore: Tecniche Nuove - Milano, pp.770, ISBN 9788848122986.
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