


PERSONAL INFORMATION

Marco Merlo



 Affiliation
 Politecnico di Milano
 Department of Energy
 Via Lambruschini 4, 20156 Milano

| Enterprise | University | EPR |
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| <input type="checkbox"/> Management Level | <input type="checkbox"/> Full professor | <input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist / Principal Investigator |
| <input type="checkbox"/> Mid-Management Level | <input checked="" type="checkbox"/> Associate Professor | <input type="checkbox"/> Level III Researcher and Technologist |
| <input type="checkbox"/> Employee / worker level | <input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator | <input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator |

WORK EXPERIENCE

Since October 2016

Associate Professor

Politecnico di Milano – Energy Department, Milano, Italy

Chair of:

- Planning and Operation of Distribution Grids (8 CPU, since AA 2017/2018), course for MSc Degree in Electrical Engineering
- Principi di Sistemi Elettrici (10 CFU, since AA 2008/2009), course for BSc Degree in Energy Engineering

Sector ING-IND/33, Electric Power Systems

Research activities in the field of:

- Electric power systems: transmission and distribution networks planning and operation, energy storage systems and renewables integration, market models, energy communities.

December 2008 - October 2016

Assistant Professor (Permanent Researcher)

Politecnico di Milano – Energy Department, Milano, Italy

March 2003 - December 2008

Post-Doc researcher

Politecnico di Milano – Electrical Department, Milano, Italy

EDUCATION AND TRAINING

March 2001 – March 2003

PhD in Electrical Engineering

PhD

Politecnico di Milano – Electrical Department, Milano, Italy

- Thesis on: Il Controllo delle Tensioni e delle Potenze Reattive nell'Esercizio di un Sistema Elettrico che evolve verso il Libero Mercato

September 1994 – July 1999

Master Degree in Electrical Engineering

97/100

Politecnico di Milano – Electrical Department, Milano, Italy

- Thesis on: Il rischio del collasso di tensione: un vincolo alla capacità di trasporto del sistema elettrico

WORK ACTIVITIES

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| Awards | Best paper on Electric storage published in IEEE Transactions on Energy Conversion for the period 2019-2020: C. Brivio, V. Musolino, M. Merlo, and C. Ballif, "A Physically-Based Electrical Model for Lithium-Ion Cells," IEEE Trans. Energy Convers., vol. 34, no. 2, pp. 594–603, 2019, doi: 10.1109/TEC.2018.2869272 |
| Editorial activity | Member of the Scientific Committee for the International Renewable Energy Storage Conference (since 2014) |
| Invited presentations | More than 10 invited presentations in International meetings and conferences |

PERSONAL SKILLS

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| Mother tongue(s) | Italian |
| Other language(s) | English (C1) |
| Job-related skills | teamwork, problem solving, mediation skills. |
| Digital skills | Microsoft Office™ suite, Mathworks MATLAB, Digsilent Power Factory. |
| Other skills | Replace with other relevant skills not already mentioned linked to Spoke research topics |

ADDITIONAL INFORMATION

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| Selected Publications | total number of publications in SCOPUS Journals, Books Chapters and Proceedings: 154 total number of citations = 1760 (Scopus on 18/07/2023) H index = 22 (Scopus on 18/07/2023) |
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Tutor for PhD and M.Sc. candidates**Graduated Ph.D. students**

- Gabriele Monfredini, Politecnico di Milano, "Novel distribution network management with dispersed generation", 2010-2013
- Stefano Mandelli, Politecnico di Milano, "Strategies for access to energy in developing countries: methods and models for off-grid power systems design", 2012-2015
- Claudio Brivio, Politecnico di Milano, "Battery energy storage systems: modelling, applications and design criteria", 2014-2017
- Mirbagheri Mina, Politecnico di Milano, "Renewable Energies Integration on Distribution Grid", 2015-2018
- Matteo Moncecchi, Politecnico di Milano, "Renewable Energy Communities", 2017-2020
- Silvia Corigliano, Politecnico di Milano, "Geospatial based methodology for rural electrification planning", 2018-2021.

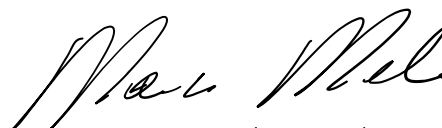
Supervision of M.Sc. thesis projects

- Between 2001 and 2020 served as supervisor or co-supervisor of more than 100 Master thesis projects at Politecnico di Milano (Energy Engineering and Electric Engineering).

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| Projects | H2020 InteGRIDy Project: 2017-2021, integrated Smart GRID Cross-Functional Solutions for Optimized Synergetic Energy Distribution, Utilization Storage Technologies. Role: Project leader for Politecnico di Milano. Total financed budget: 16 M€ |
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| Other Relevant Information | Director of the second level specializing Master in Smart Grids, arranged by Politecnico di Milano, Energy Department |
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According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV


27/07/23