

PERSONAL INFORMATION

Stefano MASSUCCO



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Sex Male | Date of birth 17/09/1954 | Nationality Italian

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input checked="" type="checkbox"/> Full professor	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
<input type="checkbox"/> Mid-Management Level	<input 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

from September 2000 – to now)	Full Professor in Electric Energy System Automation (ING-IND/33 Electric Energy Systems) at University of Genova, Italy. http://iees.diten.unige.it/ https://rubrica.unige.it/personale/VUZDWV5g
from Nov. 1993 to Sept. 2000	Associate Professor in Electric Energy System Automation (ING-IND/33 Electric Energy Systems) at University of Genova, Italy
from May 1987 to October 1993	Associate Professor in Electric Energy System Automation (ING-IND/33 Electric Energy Systems) at University of Pavia, Italy.
from Sept. 1983 to May 1987	Senior Engineer at Ansaldo SPA, Genova, Italy. Responsible for Electric Power and Automation Systems of thermal and nuclear power plants.
from October 1983 to May 1987	Researcher at the Electric Research Center of ENEL, Milano, Italy. Working in Reliability and Security of Electric Transmission and Distribution Systems.
from 2010 to now	Delegate for energy saving, appointed by the Rector – University of Genova.

EDUCATION AND TRAINING

1979	Master Degree in Electrical Engineering – University of Genova, Italy - 5 years degree obtained with 110/110 and laude and publication of the thesis.
1979	Qualification for the Professional Order of Engineer (Industrial and Civil Engineering)
1973	High School degree (Maturità Scientifica) at Liceo Grassi, Savona, Italy

PERSONAL SKILLS

Mother tongue(s)	Italian
Other language(s)	English (C1); Spanish (B1)
Job-related skills	Project management. Team leadership. Organizational skills. Motivating people. Delegating. Research fundings. Research development.
Technology Transfer skills	Participation to an Academic spin-off at University of Genova. Scientific responsible for 2 projects with SIIT (Sistemi Intelligenti Integrati – Integrated Intelligent Systems) and with PSTL (Ligurian Scientific and Technological Park, Genova). Setting up responsibility, management and Chairing for PSCC2016 Conference (Power Systems Computation) held Genova in 2016 with a worldwide participation of over 400 Scientists and Industrial persons.

Higher Education & Training skills

Coordinator of the Phd Course in Electrical Engineering and in Complex Systems for Mobility for 10 years. Coordinator of the BSc and MSc courses in Electrical Engineering for 6 years (both at University of Genova, Italy. Professor for several courses in: power system management and control; hospital energy systems; fundamental in control systems for energy systems. Lecturer at ENEL Master on Energy Efficiency and at ENI Master on Oil& Gas.

Project Management skills

Responsible for over 80 Research Projects with National and International Companies (among which: ABB, Hitachi Grid, TERNA, ENEL, RSE - Ricerca Sistema Energetico, Hitachi Rail, AXPO, etc) and at EU and National level 5 of which at European level (FP5, FP6 and H2020 related to smartgrids). National and Local Unit coordinator for PRIN (Research project of National interest) with MUR (Ministry of Research) and Research project with MISE (Ministry of Industry and Energy Transition).

Other skills

Research activity covers issues regarding smartgrids, power system automation by means of such artificial intelligence (reinforcement learning, neural networks, intelligent forecasting), load shedding strategies to face emergency conditions and blackouts in power systems, distribution automation, distributed generation, liberalized energy market, definition of ancillary service technical and economical features, role of load in power system security and economics, electrical transmission and distribution systems (smart grids, microgrids, virtual power utilities), demand response.

Author of more than 250 International and National publications in Journals and at International Conferences.

ADDITIONAL INFORMATION

Projects

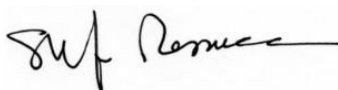
- **Project PODCAST** – (A Platform for electrical distribution system optimization by use of smart meter data and with distributed storage systems. (2017-2021), supported by the Italian Ministry of Industry [value 2M€]. Overall Project Coordinator.
- **A 3 year contract with HITACHI Power Grid (past-ABB Power System Division) – Genova** on Optimal management and control of conventional, renewable generation and storage systems in the context of energy system evolution (2019-2022) [value 150k€]. Overall Project Coordinator.
- **Project SmartGen** with SOFTECO (now AlgoWatt) Genova, ENEL University of Bologna: “Study, development and validation of innovative methods and tools for active distribution networks management with renewable energy sources”, briefly SmartGen supported by the Italian Ministry for Industry (2010-2014) [value 1.8M€]. Overall Project Coordinator.
- **Project EU FP7 AFTER “A Framework for electrical power systems vulnerability identification, defense and Restoration”,** with RSE and several EU TSOs (2011-2014) [value 5M€]. Partner UNIGE Coordinator.

Publications

- [1] F. Conte, M. C. di Vergagni, S. Massucco, F. Silvestro, E. Ciapessoni, D. Cirio, “Performance analysis of frequency regulation services provided by aggregates of domestic thermostatically controlled loads”, INTERNATIONAL JOURNAL OF ELECTRICAL POWER AND ENERGY SYSTEMS, 2021
- [2] F. Conte, F. D’Agostino, S. Massucco, F. Silvestro, C. Bossi, M. Cabiati, “Experimental Validation of a Dynamic Equivalent Model for Microgrids”, IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, In press, March 2021 doi: 10.1109/TIA.2021.3064522, ISSN: 0093-9994
- [3] F. Conte, S. Massucco, G.P. Schiapparelli, and F. Silvestro, “Day-Ahead and Intra-Day Planning of Integrated BESS-PV Systems providing Frequency Regulation”, IEEE TRANSACTIONS ON SUSTAINABLE ENERGY, vol. 11, no. 3, pp. 1797-1806, July 2020, doi: 10.1109/TSTE.2019.2941369, ISSN: 1949-3029
- [4] M. Saviozzi, S. Massucco, F. Silvestro, “Implementation of Advanced Functionalities for Distribution Management Systems: Load Forecasting and Modeling through Artificial Neural Networks Ensembles”, Elsevier Electric Power System Research (EPSR), vol. 167, pp. 230-239, February 2019, doi: 10.1016/j.epsr.2018.10.036
- [5] S. Massucco, G. Mosaico, M. Saviozzi, F. Silvestro, A. Fidigatti, E. Ragaini, “An Instantaneous Growing Stream Clustering Algorithm for Probabilistic Load Modeling/Profiling”, 16th International Conference on Probabilistic Methods Applied to Power Systems (PMAAPS), Liege, 18-21 August 2020, doi: 10.1109/PMAAPS47429.2020.9183448.
- [6] S. Massucco, G. Mosaico, M. Saviozzi, F. Silvestro, “A Hybrid Technique for the Day-ahead PV Generation Forecasting Using Clear Sky Models or Ensemble of Artificial Neural Networks According to a Decision Tree Approach”, Energies 2019, 12(7), 1298, doi: 10.3390/en12071298

Collaborations

Member of the Task Force CIGRE (International Council on Large Electric Systems) in Power system operation e Power system security. Life Senior Member of IEEE Power & Energy Society. Past Member of the CIACE – *Comitato interministeriale per gli affari comunitari europei (Italian Committee for European Community Affairs)* within the Strategic Energy Technologies Plan (SET Plan)) with the aim of identifying strategic priorities in Italian Research in Energy matters (European Industrial Initiatives-EII). Past-Chair of the Power & Energy Branch - Italy Section and past-Vice-Chair of the IEEE Italy Section, actual President of AEE - Società Energia Elettrica – AEIT. Several Universities and Research Centers in Italy, Europe and USA.



Stefano Massucco

Genova, 11.02.2022