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Education

- 1999-2001** **Ph.D. in Electrical Engineering** (Cycle XIV) at the University of Genoa in 2001 with thesis entitled "applications of artificial intelligence to control and management of electrical energy";
- 2000-2001** **Scholarship** sponsored by Edison for the Advanced Course in Management, Economics and Law of Networks. Mip-Politecnico in Milano (08/2000 - 02/2001 - 6 months);
- 1992-1998** **'Laurea'**, equivalent to B.Sc. (Hons) + M.Sc. degree, in Electrical Engineering, University of Genoa (Italy) with marks (108/110), 'with dissertation entitled: "Analysis of free electricity market in Great Britain and possible prospects in the Italian electricity system";
- 1998** **Erasmus Scholarship** for the conduct of the thesis at the CEPE (Centre for Electrical Power Engineering), University of Strathclyde, Glasgow (February-July 1998).
- 1988-1992** **Diploma di Maturità Scientifica** (equivalent to A-levels in 11 subjects), from the Liceo Scientifico Leonardo Da Vinci of Genoa with full marks (60/60).

Research experience

- Nov. 2020-today** **Full Professor** at University of Genova. Winner of a position as full professor.
- Aug. 2014 – Oct. 2020** **Associate Professor** at University of Genova. Winner of a position as associate professor.
- Nov. 2010 – Jul. 2010** **Assistant Professor (with tenure track)** at the University of Genoa. Winner of a position as Assistant professor.
- Oct. 2009 – Oct 2010** **Annual scholarship**, on "Methods of management and development of control systems for power systems with distributed generation", at the Electrical Engineering Department, University of Genoa.
- Jan. 2006 – Dec. 2008** **Research Fellow** at the University of Genoa (Italy). Winner of 3 research grants at the University of Genoa. Research themes: "Demand side management and energy control".
- Nov. 2001 – Nov. 2005** **Research Fellow** at the University of Genoa (Italy). Winner of 4 research grants at the University of Genoa. Research themes: "Security Assessment of Electric systems and electricity market" ^[1] _[SEP]

May 2001 – Sept. 2001 **Internship experience** at ALSTOM, Seattle USA, to develop a European project OMASES - Open Market Access and Security Assessment System (Fifth Framework Programme - Energy);

Competitive research projects last 5 years

2022 V- Access EU project
2020 ShIL – Ship in the Loop Research Infrastructure financed by Liguria Region on a competitive Research call (24 months) with a budget of 0.9 M € (Scientific Manager of the project).
Aug. 2016 - present Virtus project (Virtual management of distributed energy resources) financed by the MISE on a competitive System Research call (36 months) with a budget of 2.1 M € (Scientific Manager of the project).
2015 – 2017 Research project funded by the Ministry of Transport "Innovative Electric Generation (GEI) on board" with ISSIA-CNR, UNITS, FINCANTIERI (8 M€ budget)
2015-2017 POR-FESR regional project "Criteria for energy efficiency and optimization of the ship's electrical balance for the reduction of the environmental impact" in collaboration with FINCANTIERI, Budget 1 M €

Actual Teaching activity

.y. 2020/2021 -present “**Shipboard Power Systems Control**”, University of Genova, Bachelor degree of Maritime Science and Technology, III year (3 credits)
a.y. 2015/2016 “**Elettrotecnica**” (i.e., Circuit Theory), University of Genova, bachelor degree of Naval Engineering, II year (3 credits)
a.y. 2014/2015 -present “**Power system protections**”, University of Genova, Master degree of Electrical Engineering, I year (3 credits)
a.y. 2010/2011 -present “**Shipboard Electrical Power Systems**”, University of Genova, Bachelor degree of Naval Engineering, III year (3 credits)
a.y. 2011/2012 - present “**Shipboard Propulsion Systems**”, University of Genova, Master degree of Naval Engineering, II year (6 credits)
a.y. 2001- present **Tutor** of more than thirty M.Sc. theses and ten B.Sc. thesis in Electrical, Automation and Biomedical Engineering and Naval Engineering on different topics (i.e. plug-in electric vehicles, management of different energy storage devices, control theory, energy consumption forecast and management of energy production plants, shipboard power systems, etc.)
a.y. 2010 - present **Tutor or co-tutor** of 13 PhD theses in Electrical Engineering.

Actual WORKING ACTIVITIES AND IEEE MEMBERSHIP

2019 **Secretary** of the Marine Systems Coordinating Committee (MSCC)
2017 present **Secretary** of the CIGRE Working Group C1/C6.37 on "TRANSMISSION AND DISTRIBUTION INVESTMENT DECISION MAKING PROCESSES UNDER INCREASING ENERGY SCENARIO UNCERTAINTY".
2016 **Member** of the Big Data Interest Group at University of Genova
2001-present **IEEE member** (16 years)

Patent

- [C1] patent: "Method for controlling an electric power distribution grid", N°. 10511188
- [C2] Patent: "A method for controlling an electric power distribution micro-grid" N°. EP16202531.6 - 1804
- [C3] Patent: " A method for managing the load profile of a low voltage electric network and a control system thereof",
WO2013135296-A1