



Marco Invernizzi

Full professor

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Education and training

1989

PhD in Electrotechnical Engineering

Expert systems in electrical energy. Study and synthesis of a prototype for the emergency control of electrical grids

University of Genoa - Genoa - IT

1984

MSc in Electrotechnical Engineering

Influence of tap changing under load transformers on voltage stability interactions - Summa cum laude

University of Genoa - Genoa - IT

Academic experience

2018-2022

Member of the Quality Assurance Team of the University of Genoa

Responsibility for research and third mission in the first two years and as representative of professors, as well as contact person, together with the Delegate for Quality Assurance of the University, for the quality assurance processes at the governance level

2018-2022

Member of the Management Committee of the Physics Department as MIUR Department of Excellence

Vice Rector for Research and Technology Transfer for the first two years
Representative of the Polytechnic School for the second two-year period

2018-2020

Vice Rector for Research and Technology Transfer

Responsibility extended to PhD and Third Mission, University of Genoa

2014-2018

Head of the Department

Department of Electric, Electronic, Telecommunication Engineering and Naval Architecture (DITEN) of the University of Genoa

2013-2014

Head of the Education Working Group

Department of Electric, Electronic, Telecommunication Engineering and Naval Architecture (DITEN) of the University of Genoa

2007-2013

President, subsequently Coordinator, of the Council of Study Courses

Electrical Engineering of the University of Genoa

2005 - ongoing

Full Professor of Electric Energy Systems

DIE, then DYNATECH, then DITEN - University of Genoa

1998 - 2005

Associate Professor of Electric Energy Systems

Department of Electrical Engineering (DIE) - University of Genoa

1990 - 1998

Assistant Professor in Electric Energy Systems

Department of Electrical Engineering (DIE) - University of Genoa - Genoa - IT

1998 - 2005

Associate Professor of Electric Energy Systems

Department of Electrical Engineering - University of Genoa

1990 - 1998

Assistant Professor in Electric Energy Systems

Department of Electrical Engineering - University of Genoa - Genoa – IT

Language skills

Italian

Mother tongue

English

Proficient user

German

Sufficient user

Research interests

His main research interests concern modelling and dynamics of electrical energy systems, as well as security and real-time management of electrical power networks. The most significant results were obtained in the study of market models for the dispatching of primary and ancillary services, as well as in the creation of models, dedicated simulators, and prototypes of intelligent systems for the resolution of emergency and restorative control in electrical grids. Current research activity is also focused on management and control aspects of transmission and distribution networks. In recent years, attention has particularly migrated towards the control and management of microgrids and the definition of new frequency and voltage control devices and logics in networks with an increasing presence of inverter generation.

- Registered in the MIUR REPRIS (Register of Expert Peer-Reviewers for Italian Scientific Evaluation).
- Reviewer for Research Quality Evaluation (VQR).

Research Grants and Third Mission Activities

2024 - 2027

H2UB – COMETA

University of Genoa – IT - WP1 Participant

2022 - 2025

PNRR MNESYS Neuroscience and Neuropharmacology

University of Genoa – IT

Member of Technology Transfer Committee

2022 – 2025

President of the Advisory Board of UniGe Strategic Centre Security Risk Vulnerability

2021 – 2026

EUROPEAN COMMISSION - European Research Executive Agency - GRANT AGREEMENT NUMBER 101034449 — Excellent Science, Marie Skłodowska-Curie COFUND, 'Training to Complexity: muLtidisciplinary approaches to rural and mOuntain sustainable devElopment and conservation for innovative Doctoral Programmes — CLOE'

University of Genoa - IT PI

2021 – 2025

Head of the Technical Scientific Committee of the Research and Innovation Centre of Regione Liguria named EASS – Energy Environment and Sustainable Development

1990-ongoing

Responsible and committed part in research contracts with Enel Centro Ricerca di Automatica, Enel Centro Ricerca Elettrica, CESI Centro Elettrotecnico Sperimentale Italiano, ABB Power Systems, T&D Europe, Ansaldo Energia, Paul Wurth Italia, Terna