Università di Genova

Renato Procopio

Full professor

EDUCATION AND TRAINING

Date 1999
Degree in Electrical Engineering with top marks (110/110 cum laude)
Institution: Faculty of Engineering, University of Genoa

Date 2004
PhD in Electrical Engineering
Institution: Faculty of Engineering, University of Genoa

Date 2000
Diploma in Classical Guitar
Institution: G.F. Ghedini Conservatory, Cuneo

PROFESSIONAL HISTORY

September 30, 2010 – February 28, 2015
University Researcher
Institution: University of Genoa
March 1, 2015 – October 31, 2024
Associate Professor
Institution: University of Genoa
November 1, 2024 – present
Full Professor
Institution: University of Genoa
Date

ACADEMIC APPOINTMENTS

October 1, 2023 – present
Rector's Delegate for National and International Rankings
Institution: University of Genoa
May 2023 – present
Coordinator of the Electrical Section, DITEN Department
Institution: University of Genoa

EXPERIENCE

MAIN CONFERENCES

June 2019
Local Chair of the IEEE 19th International Conference on Environmental and Electrical Engineering (EEEIC 2019), Genoa, Italy, June 11–14, 2019. Sponsored by IEEE PES, EMC, and IAS Societies.

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SCIENTIFIC RESPONSIBILITY FOR RESEARCH PROJECTS ACCEPTED FOR FUNDING ON THE BASIS OF COMPETITIVE CALLS INVOLVING PEER REVIEW

November 2023 – present
Head of the Genoa Operating Unit within the PRIN project "BERENICE - Battery EneRgy managemEnt systems for reNewable and cItizen energy CommunitiEs" – co-funded by the Ministry of University and Research (MUR contribution: €240,478; duration: two years). The project aims to provide a global vision on storage systems, from circuit modeling and diagnostics to integration in poly-generative microgrids.
Entity: MUR

September 2023 – present
Principal Investigator (PI) of the PRIN project "FELINES - Forecast of the Effects of Lightning IN Electrical Systems" – co-funded by the Ministry of University and Research (MUR contribution: €198,893; duration: two years). The project aims at developing preventive protection against direct and indirect lightning for infrastructures such as transmission and distribution lines, using sensors to detect Preliminary Breakdown Pulses (PBP) and preemptively disconnect sensitive equipment.
Entity: MUR

TEACHING OR RESEARCH POSITIONS (FELLOWSHIPS) AT FOREIGN UNIVERSITIES AND RESEARCH INSTITUTES

2017 – PRESENT
Visiting Professor at the University of Niš, Faculty of Engineering, Electrical Engineering program. Courses taught:

“Lightning effects on power systems: theory and applications with the software PSCAD-EMTDC” (co-taught with Prof. Massimo Brignone), Fall Semester 2017–2018

“Modeling and Control of AC Microgrids: Theoretical and Simulative Approach” (co-taught with Prof. Andrea Bonfiglio), Spring Semester 2017–2018

“Primary and secondary control of AC islanded AC Microgrids” (co-taught with Prof. Andrea Bonfiglio), Fall Semester 2019–2020

“Lightning protection of power systems: Lightning Performance of transmission and distribution networks” (co-taught with Prof. Daniele Mestriner), Fall Semester 2022–2023
Institution: University of Niš

2021–2022
Taught the course “Lightning Induced Voltages on Distribution Systems” for the MSc in Electrical Engineering at the Federal University of São João del-Rei (UFSJ), Minas Gerais, Brazil, Spring Semester 2021–2022
Institution: Federal University of São João del-Rei

EDITORSHIP OR PARTICIPATION IN EDITORIAL BOARDS OF JOURNALS, PUBLISHING SERIES, ENCYCLOPAEDIAS AND TREATISES

2018–2020
Lead Guest Editor of the Special Section "Advances in lightning modeling, computation and measurement" in the international journal IEEE Transactions on Electromagnetic Compatibility (EMC), Vol. 61, No. 3, June 2019. The SS contains 25 articles by researchers from Europe, Asia, Africa, and the Americas, covering topics such as lightning modeling, effects on electrical infrastructures, lightning measurements, and protective device analysis**.**
Entity: IEEE Transactions on EMC

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PRIZES AND ACCOLADES FOR SCIENTIFIC ACTIVITY, INCLUDING MEMBERSHIP OF ACADEMIES

2004
Best Paper Award by the journal "COMPEL" for the paper:
F. Delfino, R. Procopio, M. Rossi, M. Nervi – "A full-Maxwell algorithm for the field-to-multiconductor line-coupling problem", COMPEL, Vol. 22(3), pp. 789–805
Entity: COMPEL

2022
Honorable Mention (Second Best Paper) from IEEE Transactions on EMC for the paper:
R. Aramini, M. Brignone, D. Mestriner, M. Pastorino, R. Procopio, A. Randazzo, M. Rubinstein – "On the Fourier Transform of Measured Electric Fields Radiated by a Lightning Return Stroke", Vol. 64(4), pp. 1257–1264
Entity: IEEE Transactions on EMC

2022
Best Paper Award at the 22nd IEEE Mediterranean Electrotechnical Conference (MELECON), Porto, June 22–27, 2024, for the paper:
M. Fresia, M. Minetti, A. Bonfiglio, R. Procopio, G. Lisciandrello, L. Orrù – "RoCoF mitigation in the Italian Transmission Network: a methodology for the Inertia Optimization"
Entity: MELECON

PARTICIPATION IN THE CREATION OF NEW BUSINESS ENTITIES (SPIN-OFFS), DEVELOPMENT, USE AND COMMERCIALISATION OF ACADEMIC PATENTS

2021 – PRESENT
ITALIAN PATENT "METHOD AND SYSTEM FOR CONTROLLING NON-INERTIAL GENERATORS, IN PARTICULAR WIND GENERATORS, BY INERTIA EMULATION", Italian priority number: IT20180007930. Extended to:

European Patent: EP3833867A1

US Patent: US2021164442A1

International Patent: WO2020031085A1
Inventors: Andrea Bonfiglio, Alessandro Giuseppe Labella, Renato Procopio
Applicant: University of Genoa

The patent won first prize in the 2021 "Intellectual Property Award" issued by the Italian Ministry of Economic Development. It was presented at the Italy Pavilion during EXPO Dubai 2020. It also led to the SMART WIND project – Prototype development of an auxiliary controller for frequency support in non-inertial wind generators, co-funded by the Ministry and the University of Genoa (Proof of Concept call – Built Up Your Tech).
Start date: March 14, 2021
Duration: 9 months
Funded amount: €57,930
Entity: MUR