Curriculum Vitae of STEFANO BRACCO

Stefano Bracco is Associate Professor of Electrical Power Systems at the Department of Electrical, Electronic and Telecommunications Engineering and Naval Architecture (DITEN) of the University of Genoa.
He currently teaches five courses at the University of Genoa: “Electrical installations”, “Power systems simulation and optimization”, “Power systems management”, “Critical energy infrastructures modelling and simulation”, “Energy transition and power systems management”. Since 2018, he has been teaching “Optimal design and operation of microgrids” as part of the Specialised Master in Renewable Energies organised by the École Nationale Supérieure des Mines de Paris in Sophia Antipolis. In 2021 he was a lecturer in “Smart grids and electric mobility in power networks” at the University of León in Spain. In 2019 he was the Director of the specialization course on “Electric mobility systems for the smart city” organized by the University of Genoa in collaboration with the Italian association MOTUS-E, and in 2022 he was the director of the International Alpgrids Microgrid Summer School held as part of the European ALPGRIDS project. He has been the supervisor of four PhD students in Sciences and Technologies for Electrical Engineering and Complex Systems for Mobility at the University of Genova, one of them under a cotutelle agreement with the University of Sevilla. He has supervised/co-supervised more than 90 B.Sc. and M.Sc. engineering theses at the University of Genoa.
His main research activities include optimal design and operation of microgrids, distributed generation power plants and storage systems modelling, integration of renewable power plants in distribution networks and smart buildings, smart charging of electric vehicles, V2X technologies, analysis of the impact of electric vehicle charging infrastructures on power networks, study of energy markets and optimal design of renewable energy communities. The above activities are developed through joint research projects with other universities and companies, such as the Polytechnic University of Zurich, the Universities of León and Sevilla, the Politecnico di Milano, FIAMM SpA, Ansaldo Energia SpA, ENEA, Fera srl.
He was the pilot coordinator of the project to create a positive energy district in the Legino area of the Savona municipality within the European ALPGRIDS project. From 2018 to 2019 he has been the scientific coordinator of the agreement between the Provveditorato Interregionale alle OO.PP. Piemonte - Valle d’Aosta - Liguria and the University of Genoa, whose main objective was to develop an energy efficiency project for the courthouse of Savona. From 2020 to 2021 he was in charge of the research project “Mathematical models and optimization tools for the design of multi-vector energy systems in local energy communities” commissioned by ENEA. From 2021 to 2022 he has also been the scientific coordinator of a research project developed with Ansaldo Energia SpA on the integration of small-scale cogeneration units and electric vehicle charging infrastructures in the residential and tertiary sectors. Since 2021 he has been the representative of the Framework Agreement between the University of Genoa and RINA SpA company, with the aim of developing joint research activities, teaching and tutoring programmes on the challenging topics of the energy transition and blue economy.
He has been a speaker at national and international conferences, where he has organized several special sessions, and a member of technical committees of international conferences. He is currently Journal Editor of the Electrical Engineering section of the Journal of Power Technologies, member of the Advisory Editorial Board of Sustainable Energy Developments books published by CRC Press - Taylor and Francis Group, member

of the Editorial Board of Energies and Associate Editor of Frontiers in Energy Research. He is the author of about 100 scientific papers and 2 international books.
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