

Curriculum vitae

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GIANFRANCO CHICCO

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GIANFRANCO CHICCO graduated in Electrotechnics Engineering (honors) in 1987 at Politecnico di Torino (POLITO), Italy, and obtained the Ph.D. in Electrotechnics Engineering in Italy in 1992. He received the "Giancarlo Vallauri" 1988 Award as the best graduated in Electrotechnical Engineering at POLITO in the Academic year 1986/87. In 2017 he received the title of "Doctor Honoris Causa" from the University Politehnica of Bucharest (Romania). In 2018 he received the title of "Doctor Honoris Causa" from the University "Gheorghe Asachi" of Iasi (Romania).

He is a Full Professor of Electrical Energy Systems at POLITO. He is the National Secretary of GUSEE - Gruppo Universitario "Sistemi Elettrici per l'Energia" (an Italian Association including all the professors, researchers, doctoral students and research assistants operating in the Power and Energy Systems sector). He is the Scientific Responsible of the Torino unit of GUSEE, and the Responsible of the Torino unit of the Italian Consortium ENSIEL.

In April-May 1999 he was a Visiting Assistant Professor at the University of Illinois at Urbana-Champaign, Electrical and Computer Engineering Department, Urbana, IL. In 2003 he was a Member of the Administration Board of POLITO and a Member of its "Budget and Accounting Management" and "Personnel Management" Commissions. In the period 2007-2015 he was the President of the University Academic Planning Council and the Coordinator of the Course Coordination Committee in Electrical Engineering at POLITO.

He is a Fellow of the IEEE (Power and Energy Society), a Member of the Italian Association of Electrotechnics, Electronics, Automation, Informatics and Telecommunications (AEIT), and a registered professional Engineer in the Province of Torino, Italy.

His research interests include Power System Analysis, Distribution System Analysis and Optimization, Electrical Load Management, Energy Efficiency and Environmental Impact of Multi-Energy Systems, Data Analytics, Artificial Intelligence Applications to Power and Energy Systems, Renewable Energy Sources and Distributed Generation, and Power Quality.

Project activities on sustainable energy

Gianfranco Chicco has been the scientific responsible and coordinator of projects on energy resource deployment and sustainability, and participated in several other projects funded by national and European grants, among which:

- EU FP7 project SiNGULAR (Smart and Sustainable Insular Electricity Grids Under Large-Scale Renewable Integration), as the coordinator of the research unit at POLITO and the Coordinator of WP4 "Power analysis tools" (2012-2015).
- EU FP6 Project DIGENAS (Distributed Generation in the Associated States - Research Priorities and Challenges on the Open Electricity Market): project co-responsible, and coordinator of the International Seminar on Research Capacity, Bucharest, Romania (2006).
- National project PRIN "Experimental tests and analysis of the energy production of photovoltaic and wind systems" (2004-2006): research unit coordinator at POLITO.
- Regional project "Territorial sustainability of distributed energy generation and interactions with electroenergetic systems" (funded by the Piemonte Region, 2006-2010): project coordinator.
- Local project "Technical, economic and environmental assessment of the scenarios for the diffusion of the distributed generation in the regional territory" (funded by the Fondazione CRT, 2005-2007): scientific co-responsible.

Furthermore, he participated (or is participating) in other European projects: FP7 eHighway2050, H2020 Store&Go, H2020 Flexmeter, H2020 MIGRATE, and H2020 Planet.

Organization and technical activities for journals and conferences

Gianfranco Chicco is an Editor of the IEEE Transactions on Smart Grid, an Editor of the IEEE Transactions on Sustainable Energy, an Associate Editor and Subject Editor (for the subject “Integrated Heating, Cooling and Electricity Systems”) of Energy - the International journal (Elsevier), an Editor of Sustainable Energy Grids and Networks - SEGAN (Elsevier), and an Editor of Energies (MDPI).

He was the Chairman of the IEEE PES Innovative Smart Grid Technologies (ISGT) Europe 2017, held in Torino (Italy) on 26-29 September 2017.

He was the Chairman of the Sixth edition of the World Energy System Conference (WESC), Torino, Italy, 10-12 July 2006, the Editor of the Conference Proceedings, and a co-Guest Editor of two Special Issues of WESC 2006 published in the journals Energy and Electric Power System Research (Elsevier). He was the Conference co-Chairman of three editions of WESC held in Romania (Iasi, 2008, Targoviste, 2010, and Suceava, 2012), and a co-Guest Editor of the Special Issue of WESC 2010 published in the journal Energy.

He was a Member of the Technical Committee, Organizing Committee and Local Organizing Staff of the IREP International Symposium Bulk Power Systems Dynamics and Control - VI "Managing Complexity in Power Systems: from Micro-Grids to Mega Interconnections", Cortina D'Ampezzo, Italy, 22-27 August 2004, and a co-Editor of the Symposium Proceedings.

He was a Member of the Technical Committee of the IEEE Conferences (Melecon 2006, 2008 and 2010; EnergyCon 2014 and 2016; Environment and Electrical Engineering (EEEIC) since 2011), a Technical Program Track co-Chair for IEEE Melecon 2008, 2010, 2012 and IEEE Africon 2013, a member of the Basil C. Papadias Student Paper Award Committee for IEEE Powertech since 2009, and a Conference Session Chairman in various international Conferences. He is a peer-Reviewer of numerous international journals published by Elsevier, IEEE, IET, and others.

Tutorials and presentations concerning sustainable energy

Gianfranco Chicco has delivered a number of tutorials, among which “Small-scale multigeneration systems” at IEEE Melecon 2008, Ajaccio (France), “Energy efficiency and sustainability of distributed-multi-generation in industrial and civil environments” in the Jean Monnet Course “New skills for new challenges”, Catania, (Italy, March 2010), and further tutorials at the IRIDE Summer Course “Sustainable development of the future power systems” (Bucharest, Romania, July 2007), and at the Summer School series held annually at the University of Salerno, (2014-2017). He has delivered the invited presentation “Demand flexibility for load aggregations” at the IEEE SmartGridComm 2014 Workshop (Venice, Italy, November 2014).

Lecturing and tutoring

Gianfranco Chicco has been the responsible and lecturer of three courses offered to the Doctoral students in the official catalogue at POLITO: “Characterization and planning of small-scale multigeneration systems”; “Distributed generation in electrical systems”; and, “Electrical load forecasting and management”. He has been the tutor or co-tutor of ten Doctoral students in Electrical Engineering, and over 100 students preparing the M.S. thesis in Electrical Engineering.

Publications

The International scientific production of Gianfranco Chicco includes one book, five book chapters, over 60 journal publications, and over 130 publications in conference proceedings. To January 2018, his h-index is 41 From Google Scholar (with i10-index 119). 32 from Scopus (excluding self-citations of all authors), and 30 from Web of science.