

Curriculum vitae
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ENRICO PONS

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Enrico Pons received the master degree in electrical engineering and the Ph.D. degree in industrial safety and risk analysis from Politecnico di Torino, Torino, Italy, in 2004 and 2008, respectively. He is currently associate professor at the Department of Energy “Galileo Ferraris” of Politecnico di Torino.

He is leading the courses of “Design of electrical systems” for the Master of Science program in Energy and Nuclear Engineering and of “Electrical systems and safety” for the Master of Science program in Electrical Engineering. He was the reference person for image and orientation of the degree and master's degree in Electrical Engineering at the Polytechnic of Turin from 2016 to 2021.

His research activities include complexity in energy systems, power systems security, real-time simulation of power systems, integration of renewable generation in distribution networks, smart metering, distribution networks modelling and optimization, traction electrification systems for railways and tramways, bi-directional electric vehicles charging stations and electrical safety. He co-authored 42 publications on international peer-reviewed journals, 48 publications in conference proceedings, 2 book chapters and a monograph, on various topics related to power systems and electrical engineering. For his research activity he was awarded the “Honorable Mention Prize Paper” from the 2011 IEEE IAS Petroleum and Chemical Industry Technical Conference in Toronto for the paper “Classification of Hazardous Areas Produced by Maintenance Interventions on N.G. Distribution Networks and in Presence of Open Surface of Flammable Liquid”. He was also awarded the 2020 Manby Prize ICT/GIS/BIM, for the article “Planning and real-time management of smart grids with high PV penetration in Italy” published in Engineering Sustainability, Volume 172, Issue 6, September 2019, pp. 272-282 In Focus: SEB16.

He has been invited speaker at the international conference “Critical infrastructure protection in energy and communication sectors. The International experience and national priorities.”, in 2012, Bucharest, Romania and at the “International Istanbul Smart Grids and Cities Congress and Fair – ICSG 2017”, 19-21 April 2017, Istanbul, Turkey. He was member of the Steering Committee of the International Conference on Sustainability in Energy and Buildings, held in Turin, Italy, in September 2016, where he was also session chair. He was Treasurer and Webmaster of the IEEE International Conference on Innovative Smart Grid Technologies IEEE ISGT Europe 2017, which was held in Torino, Italy, in September 2017, and again Treasurer and Webmaster of the “55th International Universities Power Engineering Conference – UPEC 2020” which was held in Torino, Italia, in September 2020. He is Publicity Chair of the international conference “IEEE EUROCON 2023” which will be held in Torino from the 6th to the 8th July 2023. He is reviewer for several international journals and conferences related to power systems and electrical engineering.

Within the power systems group of Politecnico di Torino, in his research activities, he is collaborating tightly with the industry, including utilities, manufacturers, railway and tram operators, the transmission system operator and some of the biggest distribution system operators in Italy. He is responsible for several research contracts, consulting contracts and teaching contracts with the industry. He is also participating in Regional, National and European research projects.

He is a member of the electrical and special systems commission of the Order of Engineers of the Province of Turin and of the subcommittee 31-J of the CEI as a representative of the Order of Engineers of the Province of Turin.

He is member of AEIT, GUSEE and ENSIEL. He is a Senior Member of the IEEE.