Antonio Bracale

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Antonio Bracale is an associate professor of Power Systems at the Department of Engineering of the University of Naples “Parthenope”, (Italy). He received his degree in Telecommunication Engineering from the University of Naples “Federico II” (Italy) in 2002 and the PhD degree in Electrical Energy Conversion from the Second University of Naples, Aversa, Italy, in 2005. From 2005 to 2007 he was a post-doc research fellow at the University of Naples Federico II. Antonio Bracale co-authored over 130 papers published in international journals and the proceedings of conferences. 109 papers were indexed in SCOPUS with 1474 citations and h-index = 21. He co-authored four book chapters (in English). His research activities are related to the ERC sector PE7-2 Electrical and electronic engineering: semiconductors, components, systems. He participated in the following National research projects: PRIN project “Advanced Systems for the Evaluation and Management of Power Quality in Active Distribution Systems with Real-Time Simulator Experimental Application”, PON FC SMART GEN – “Fuel cell and smart hybrid generation from fossil and renewable sources”, PON MICCA – “Hybrid Microgrids in direct current and alternate current”, Ricerca di Sistema project: "Models for System Voltage Quality Regulation", POR FESR Automotive, POR FESR HyLIVE “Hydrogen Light Innovative Vehicles”, POR FESR IDRICA “Integrated Laboratory for the Monitoring, Control and Optimal Management of Hydro and Environmental Resources” and Project Campus RISE "Research Innovation and Development in the Energy Field". He participated in the European Project DiGriFlex “Real-Time Distribution Grid Control and Flexibility Provision under Uncertainties”. He gave his collaboration in the framework of several research projects commissioned by public and private institutions. He is a member of the Editorial Board of the following Journals: “International Transactions on Electrical Energy Systems Journal” (publisher: John Wiley & Sons) since 2018, “The Open Electrical & Electronic Engineering Journal” (publisher: BENTHAM) since 2018 and "Forecasting Open Access Journal” (publisher: MPDI) from 2019. He was co-Guest Editor of the following Special Issue: “Advanced Signal Processing Techniques Applied to Power Systems Control and Analysis” Energies (publisher: MPDI) in 2019, “Ensemble Forecasting Applied to Power Systems”, Forecasting (publisher: MPDI) in 2018, “Advanced signal processing techniques and telecommunications network infrastructures for Smart Grid analysis, monitoring and management”, EURASIP Journal on Advances in Signal Processing (publisher: Springer) in 2014. He has served as a member of the Technical programme committee of many international conferences in the field of power systems. He is a Senior Member of the Institute of Electrical and Electronic Engineering (IEEE), of IEEE Task Force on Probabilistic Aspects of Harmonics, of IEEE Task Force on Harmonics Modeling and Simulation and of IEEE Working Group on Voltage Quality. He was invited to present the contribution “Time-Varying Approach” at IEEE Power and Energy Society General Meeting Panel Session titled: "Time-Varying and Probabilistic Methods for Harmonics Aggregation Analysis in a Smart Grid" in 2013, the contribution “Methods for Supraharmonic Assessment in Microgrids”. at IEEE Power and Energy Society General Meeting Panel Session titled: “Harmonic modeling and power quality assessment issues for isolatable systems” in

2019 and the contribution “Harmonics Modeling and Simulation of Large Wind and Solar Power Plants”. at IEEE Power and Energy Society General Meeting Panel Session titled: “IEEE Harmonics Standards for Wind and PV Solar Plants” in 2023. He is a member of the Executive Board and Leader of the Research Committee of the Department of Engineering of the University of Naples “Parthenope” since 2008 and 2020, respectively. His research interests concern power quality, advanced signal processing methods in power system analysis, optimal planning and management of smart grids, deterministic and probabilistic steadystate analysis in normal and short circuit conditions of power systems, and loads/renewable generators power forecasting methods. He carried out the aforementioned research activities in collaboration with the University of Naples "Federico II", University of Cassino e del Lazio Meridionale, the Polytechnic of Turin, the University of Naples Luigi Vanvitelli, the Wroclaw University of Technology (Poland), the University of North Carolina at Charlotte (USA), the MINES ParisTech, PSL - Research University (France), the Chalmers University of Technology (Sweden), the Luleå University of Technology (Sweden), the Techniche Universitaet Dresden, Dresden (Germany) and the Ecole d'Ingenieurs du Canton de Vaud (Switzerland).

Additional Information:

- Member of the ICREPQ-International Scientific Committee.
- RE&PQJ-Scientific Committee Member.