

Personal Information

Fabrizio Giulio Luca Pilo



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Sex Male | Date of birth 23/01/1966 | Nationality Italian

WORK EXPERIENCE

- 2018 – Present **Full Professor of Power Systems**
Università degli studi di Cagliari
 - Member of the Academic Senate
- 2015 – Present **Full Professor of Power Systems**
Università degli studi di Cagliari
 - Director of the Department of Electrical and Electronic Engineering
- 2014 – Present **Full Professor of Power Systems**
Università degli studi di Cagliari
 - Professor of Power Systems
- 2012 – 2014 **Associate Professor of Power Systems**
Università degli studi di Cagliari
 - Vice Dean of the Faculty of Architecture and Engineering
- 2012 – 2014 **Associate Professor of Power Systems**
Università degli studi di Cagliari
 - Director of the Ph. D. School of Industrial Engineering
- 2006 – 2012 **Associate Professor of Power Systems**
Università degli studi di Cagliari
 - Director of the Department of Electrical and Electronic Engineering
- 2001 – 2014 **Associate Professor of Power Systems**
Università degli studi di Cagliari
 - Associate Professor of Power Systems
- 1995 – 2001 **Assistant Professor of Power Systems**
Università degli studi di Cagliari
 - Responsible for Power Systems Laboratories
- 1995 – 1998 **Ph. D. Student**
Università di Pisa - Department of Electrical and Automation
 - Ph. D. student
- 1993 – 1995 **Research fellow**
Università degli studi di Cagliari
 - Responsible for Research on Power distribution Planning

TEACHING ACTIVITIES

- 2013 – Present **POWER DISTRIBUTION AND SMART GRIDS**
Bachelor, Electrical Engineering, University of Cagliari, DIEE, Italy
- 2005 – Present **Power System Fundamentals**
Bachelor, Electrical Engineering, University of Cagliari, DIEE, Italy.

2011 – 2018 **Power systems 1**
Master, Electrical Engineering, University of Cagliari, DIEE, Italy.

2019 – Present **Electric power production**
Master, Electrical Engineering, University of Cagliari, DIEE, Italy.

EDUCATION AND TRAINING

1995-1998	Ph. D. on Elctrical Engineering Università di Pisa - Department of Electrical and Automation, Italia ▪ Power system distribution planning and operation	8
1995-1998	Ph. D. on Electrical Engineering Università di Pisa - Department of Electrical and Automation, Italia ▪ Power system distribution planning and operation	8
1986-1993	Master (magna cum laude) in Electrical Engineering Università di Cagliari – Facoltà di Ingegneria, Italia ▪ Electrical engineering, power systems, electrical machines, control and automation theory	7
1981-1985	High school diploma (60/60) High School “G. Spano” - Sassari, Italia	8

ADDITIONAL INFORMATION

SELECTED RECENT GRANTS

- ITALIAN NATIONAL RESEARCH PROJECT PRIN 2017, Planning and flexible operation of micro-grids with generation, storage and demand control as a support to sustainable and efficient electrical power systems: regulatory aspects, modelling and experimental validation., Local responsible
- EU H2020 INTERREG-MED 2014-2020 STORES - ID: 695/1MED15_2.2_M2_184. Local Responsible from 01-11-2016
- EU H2020 OSMOSE (Project No. 773406): Optimal System-Mix Of flexibility Solutions for European electricity, Third party, Coordinator from 01-01-2018
- ERASMUS+ - KA2, 2018-1-IT02-KA203-048289 - Developing advanced master’s education based on Smart Grid technology, **Project Coordinator**
- ENI CBC MED, Cost-effective rehabilitation of public buildings into smart and resilient nano-grids using storage «BERLIN», Local Responsible

TEN YEARS TRACK RECORD

- More than 150 indexed papers
- SCOPUS H-INDEX 29
- GOOGLE SCHOLAR H-INDEX 35
- More than 10 M€ grants for research and consultancies (ENEL, TERNA, EDF, SARAS, ENSIEL, etc.)

ORGANIZATION OF SCIENTIFIC MEETINGS

- 2019- SyNERGY MED 2019, The 1st International Conference on Energy Transition in the Mediterranean Area, Cagliari, 28-30 May 2019
- 2012- IET Conference, MEDPOWER 2012, Cagliari, Italy, 1-3 October 2012,
- 2010 - International Conference on Lightning Protection, Cagliari, Italy, 13-17 September 2010
- 2007 - International EES-UETP Course on Electricity networks of the future: theoretical and practical issues to design the new distribution system, Cagliari, Italy
- 2005 - International EES UETP Course on Grounding Analysis and Techniques: from Industrial to High Frequencies and Lightning, Cagliari, Italy

PRIZES, AWARDS, ACADEMY MEMBERSHIP

- 2013 IEEE Senior member
- 2018 CIGRE Distinguished member
- Member of the Italian Association of Electrical Engineers
- Member of the CIRED Technical Committee
- Member of the CIRED board of Directors

CHAIRMAN OF

- 2007 TC Member and Special Reporter, CIRED 2007, Wien, Austria, 21-24 May 2007

CONFERENCES, SPECIAL REPORTER, TECHNICAL COMMITTEES MEMBER, SESSION CHAIRMAN

- 2009 TC Member and Special Reporter, CIRED 2009, Prague, Czech Republic, 8-11 June 2009
- 2010 TC Member, Chairman, CIRED Workshop 2010, Lyon 7-8, France, June 2010
- 2010 Local Organizing Committee Chairman, International Conference on Lightning Protection, Cagliari, Italy, 13-17 September 2010
- 2011 TC Member, S5 Chairman, CIRED 2011, Frankfurt, Germany, 6-9 June 2011
- 2011 Session Chairman, CIGRE Symposium, Bologna, 13-15 September 2011
- 2012 TC Member, Chairman, CIRED Workshop 2012, Lisbon, Portugal, 29-30 May
- 2012 Conference Co-Chairman, IET MEDPOWER 2012, Cagliari, Italy, 1-3 October
- 2013 Session Chairman, CIGRE-CIRED Symposium, Lisbon, Portugal – April 22-24,
- 2013 TC Member, S5 Chairman CIRED 2013, Stockholm, Sweden, 10-13 June 2013,
- 2013 International Advisory Committee Member, Session Chairman, IEEE POWER TECH, Grenoble, France, 16-20 June 2013
- 2013 Session Chairman, ISGT EUROPE 2013, Copenhagen, Denmark, 6-9 October
- 2014 TC, Chairman, CIRED Workshop 2014, Rome, Italy 11-12 June 2014
- 2014 Honorary Co-Chairman, IET MEDPOWER 2014, Athens, Greece, 2-5 November
- 2015 TC Member, S5 Chairman CIRED 2015, Lyon, France, 15-18 June 2015
- 2016 TC Member, S5 Chairman CIRED WORKSHOP 2016, Helsinki, Finland, 15-18 June 2016
- 2017 TC Member, S5 Chairman CIRED 2017, Glasgow, 15-18 June 2017
- 2018 TC Member, Theme Chairman CIRED WORKSHOP 2018, Ljubljana,
- 2019 TC Member, S5 Chairman CIRED 2019, Madrid, 5-7 June 2019.

EDITORIAL ACTIVITIES

- Associate editor International Journal of Electrical Power System
- Associate editor Journal on Sustainable Energy Grids and Networks.
- Reviewer: IEEE Transactions on Power Systems, Power Delivery, Smart Grids, Industrial Informatics e Industrial Electronics; Journal of Electric Power Research; The Scientific World Journal; International Journal of Power Electronics and Drive Systems; JOULE; Energy strategy reviews; Energies

Publications (Only Journals)

- [1] Emilio Ghiani, Marco Galici, Mario Mureddu and Fabrizio Pilo, Impact on Electricity Consumption and Market Pricing of Energy and Ancillary Services during Pandemic of COVID-19 in Italy, (2020), Energies, Energies 2020, 13(13), 3357; <https://doi.org/10.3390/en13133357>
- [2] Chowdhury, N., Pilo, F., Pisano, G., Optimal energy storage system positioning and sizing with robust optimization (2020) Energies, 13 (3), art. no. 51, DOI: 10.3390/en13030512
- [3] Ghiani, E., Giordano, A., Nieddu, A., Rosetti, L., Pilo, F., Planning of a smart local energy community: The case of berchidda municipality (Italy), (2019) Energies, 12 (24), art. no. 4629, DOI: 10.3390/en12244629
- [4] Pisano, G., Chowdhury, N., Coppo, M., Natale, N., Petretto, G., Soma, G.G., Turri, R., Pilo, F., Synthetic models of distribution networks based on open data and georeferenced information, (2019) Energies, 12 (23), art. no. 4500, DOI: 10.3390/en12234500
- [5] Troncia, M., Galici, M., Mureddu, M., Ghiani, E., Pilo, F., Distributed ledger technologies for peer-to-peer local markets in distribution networks (2019) Energies, 12 (17), art. no. 3249, DOI: 10.3390/en12173249
- [6] Celli, G., Pilo, F., Pisano, G., Soma, G.G., Schiavo, L.L., Vailati, R., Cost-benefit analysis of storage systems in distribution networks [Analisi costi-benefici dei sistemi di accumulo nelle reti di distribuzione], (2019) Energia Elettrica, 96 (2), pp. 29-40.
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- [8] Celli, Gianni, Pilo, Fabrizio, Pisano, Giuditta, Soma, Gian Giuseppe (2018). Distribution energy storage investment prioritization with a real coded multi-objective Genetic Algorithm. ELECTRIC POWER SYSTEMS RESEARCH, vol. 163, p. 154-163, ISSN: 0378-7796, doi: 10.1016/j.epsr.2018.06.008
- [9] Celli, Gianni, Chowdhury, Nayeem, Pilo, Fabrizio, Soma, Gian Giuseppe, Troncia, Matteo, Gianinoni, Iva Maria (2018). Multi-Criteria Analysis for decision making applied to active distribution network planning. ELECTRIC POWER SYSTEMS RESEARCH, vol. 164, p. 103-111, ISSN: 0378-7796, doi: 10.1016/j.epsr.2018.07.017
- [10] Simona Ruggeri, Gianni Celli, Fabrizio Pilo, Gilles Malarange, Alberto Pagnetti (2018). Simplified LV feeders model in presence of DG for MV network studies. SUSTAINABLE ENERGY, GRIDS AND NETWORKS, vol. 13, p. 19-28, ISSN: 2352-4677, doi: 10.1016/j.segan.2017.10.002
- [11] Garau Michele, Celli Gianni, Ghiani Emilio, Pilo Fabrizio, Corti Sergio (2017). Evaluation of Smart Grid

- Communication Technologies with a Co-Simulation Platform. IEEE WIRELESS COMMUNICATIONS, vol. 24, p. 42-49, ISSN: 1536-1284, doi: 10.1109/MWC.2017.1600214
- [12] Ochoa Luis Nando, Pilo Fabrizio, Keane Andrew, Cuffe Paul, Pisano Giuditta (2016). Embracing an Adaptable, Flexible Posture: Ensuring That Future European Distribution Networks Are Ready for More Active Roles. IEEE POWER & ENERGY MAGAZINE, vol. 14, p. 16-28, ISSN: 1540-7977, doi: 10.1109/MPE.2016.2579478
- [13] Mocci S, Natale N, Pilo F, Ruggeri S (2015). Demand Side Integration in LV Smart Grids with Multi-Agent Control System. ELECTRIC POWER SYSTEMS RESEARCH, vol. 125, p. 23-33, ISSN: 0378-7796, doi: 10.1016/j.epsr.2015.03.021
- [14] COPPO M., PELACCHI P., PILO F., PISANO G., SOMA G, TURRI R. (in stampa). The Italian smart grid pilot projects: Selection and assessment of the test beds for the regulation of smart electricity distribution. ELECTRIC POWER SYSTEMS RESEARCH, ISSN: 0378- 7796, doi: 10.1016/j.epsr.2014.06.018
- [15] Celli, G., Pegoraro, P.A., Pilo F., Pisano, G., Sulis, S. (2014). DMS Cyber-Physical Simulation for Assessing the Impact of State Estimation and Communication Media in Smart Grid Operation. IEEE TRANSACTIONS ON POWER SYSTEMS, ISSN: 0885-8950, doi: 10.1109/TPWRS.2014.2301639.
- [16] Ghiani E., Pilo F., Cossu S. (2013). Evaluation of photovoltaic installations performances in Sardinia. ENERGY CONVERSION AND MANAGEMENT, vol. 76, p. 1134-1142, ISSN: 0196-8904, doi: 10.1016/j.enconman.2013.09.012
- [17] G. Celli, E. Ghiani, Pilo F., G.G. Soma (2013). New electricity distribution network planning approaches for integrating renewable.
- [18] WILEY INTERDISCIPLINARY REVIEWS. ENERGY AND ENVIRONMENT, ISSN: 2041-840X, doi: 10.1002/wene.70
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- [21] Celli, G., Ghiani, E., Pilo F., Soma, G.G. (2013). Reliability assessment in smart distribution networks. ELECTRIC POWER SYSTEMS RESEARCH, vol. 104, p. 164-175, ISSN: 0378-7796, doi: 10.1016/j.epsr.2013.07.001
- [22] Celli G, Ghiani E, Pilo F. (2012). Behaviour of grounding systems: A quasi-static EMTP model and its validation. ELECTRIC POWER SYSTEMS RESEARCH, vol. 85, p. 24-29, ISSN: 0378-7796, doi: 10.1016/j.epsr.2011.07.004
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- [24] A. Purvinis, H. Wilkening, G. Fulli, E. Tzimas, G. Celli, S. Mocci, Pilo F., S. Tedde (2011). A European supergrid for renewable energy: local impacts and far-reaching challenges. Journal of cleaner production, vol. 19, p. 1909-1916, ISSN: 0959-6526, doi: 10.1016/j.jclepro.2011.07.003
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- [30] Pilo F., G. Pisano (2009). Ricerca sulle reti di Distribuzione- Sessione 3: Gestione, controllo e protezione. AEIT, vol. 96, ISSN: 1825- 828X

- [31] Pilo F., S. Mocci, G. Pisano (2009). Ricerca sulle reti di Distribuzione- Sessione 5: Sviluppo del sistema di distribuzione. AEIT, vol. 96,
- [32] ISSN: 1825-828X
- [33] Pilo F., G. Pisano, M. Gallanti (2009). Smartgrid e Reti di Distribuzione Attive: opportunità e barriere. AEIT, ISSN: 1825-828X
- [34] Pilo F. (2009). Smartgrid: Il contributo del CIREN. AEIT, vol. 96, ISSN: 1825-828X
- [35] C. Muscas, Pilo F., G. Pisano, S. Sulis (2007). Optimal number and location of measurement instruments in distributed systems for harmonic state estimation. JAKOŚĆ I UŻYTKOWANIE ENERGII ELEKTRYCZNEJ, vol. XIII, p. 75-81, ISSN: 1234-6799
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