



Antonio Pepiciello

Email address:

Phone number:

Gender: Male Nationality: Italian

EDUCATION AND TRAINING

[03/12/2018 - Current] PhD in Energy Engineering

University of Sannio

Address: Benevento, Italy

Field(s) of study: Power Systems

Thesis: Flexibility solutions for the integration of variable renewable energy sources in

power systems

[02/01/2016 - 22/02/2018] Master Degree in Energy Engineering

University of Sannio

Address: Benevento, Italy

Field(s) of study: Energy Engineering

Final grade: 110 cum laude

Thesis: Magnetocaloric materials and active magnetic regeneration for cooling

applications

[15/09/2012 - 17/12/2015] Bachelor Degree in Energy Engineering

University of Sannio

Address: Benevento, Italy Final grade: 110 cum laude

Thesis: Earnshaw's Theorem: preliminary study of a diamagnetically stabilized levitating

system

[05/09/2014 - 28/02/2015] Erasmus Study Exchange

Universidad de Huelva

Address: Huelva, Spain

WORK EXPERIENCE -

[15/09/2021 - 15/12/2021] Visiting researcher

Fundació Institut de Recerca en Energia de Catalunya (IREC)

City: Barcelona Country: Spain

Main activities and responsibilities:

Research on the impact of wind energy integration in power systems.

[2020]

An Interval Mathematic-Based Methodology for Reliable Resilience Analysis of Power Systems in the Presence of Data Uncertainties

https://doi.org/10.3390/en13246632)

Reference: Energies-MDPI

Authors: A. Pepiciello, A. Vaccaro, L. L. Lai

[2020]

The role of learning techniques in synchrophasor-based Dynamic Thermal Rating

https://doi.org/10.1016/j.ijepes.2019.105435

Reference: Int. J. of Electrical Power and Energy Systems Authors: A. Pepiciello, G. Coletta, A. Vaccaro, D. Villacci

[2019]

Robust Optimization of Energy Hubs Operation Based on Extended Affine Arithmetic

https://doi.org/10.3390/en12122420

Reference: Energies - MDPI

Authors: A. Pepiciello, A. Vaccaro

CONFERENCES AND SEMINARS -

Experimental Assessment of Cooperative Sensors Network-based Dynamical Thermal Rating: the first evidences from the H2020 OSMOSE Projec

AEIT 2021, Milan (Virtual Conference)

Authors: D. Villacci, L. Orrù, F. Gasparotto, A. Vaccaro, G. Albimonti, A. Pepiciello

10.23919/AEIT53387.2021.9626901

Artificial Neural Network-based Small Signal Stability Analysis of Power Systems

PowerTech 2021, Madrid (Virtual Conference)

Authors: A. Pepiciello, A. Vaccaro

10.1109/PowerTech46648.2021.9494952

Experimental Assessment of a PTP-based System for Large Scale Time Synchronization of Smart Grids

UPEC 2020, Turin (Virtual Conference)

Authors: A. Pepiciello, A. Vaccaro, T. Pietropaoli

10.1109/UPEC49904.2020.9209872

A reliable architecture based on Precision Time Protocol for WAMPAC synchronization

AEIT International Conference 2018, Bari

Authors: A. Pepiciello, A. Vaccaro 10.23919/AEIT.2018.8577414

PATENTS -

Sistema di rilevamento di interferenze di segnali di sincronizzazione temporale in ingresso a dispositivi di misura di sincrofasori in sistemi elettrici di potenza

Authors: A. Pepiciello, A. Vaccaro, D. Villacci

N. 102021000023765

Deposited in September 2021

BOOKS -

Affine Arithmetic-Based Methods for Uncertain Power System Analysis

Authors: Alfredo Vaccaro, Antonio Pepiciello

Publisher: Elsevier

Paperback ISBN: 9780323905022

CHAPTERS -

Introductory Chapter: Open Problems and Enabling Methodologies for Smart Grids

Book: Research Trends and Challenges in Smart Grids - IntechOpen

Authors: A. Vaccaro, A. Pepiciello, A. Faheem Zobaa

10.5772/intechopen.86496

NETWORKS AND MEM-BERSHIPS -

Croce Rossa Italiana

IEEE Power and Energy Society

Associazione dottorandi e dottori di ricerca in Italia

HONOURS AND AWARDS —

Third Best Presentation Awarding institution: Universities Power Eng. Conference (UPEC 2020), Torino, Italia

Thesis co-supervision

Master (M) and Bachelor (B) theses:

Methods for the resolution of Unit Commitment in microgrids (B). (October 2018)

Author: Stefano Palmieri

• Participation of renewable energy sources in Italian dispatch market (B). (October 2018)

Author: Alessio Coccia

Optimal design of autonomous microgrids (B). (October 2018)

Author: Gianmarco Castiello

• The role of virtual power plants in modern power systems (B). (December 2018)

Author: Giovanna Bernardo

Optimal management of a microgrid: methodology and experimental validation (B).
(October 2019)

Author: Emanuele D'Argenzio

• Enabling methodologies for the Unit Commitment in microgrids (B). (October 2019)

Author: Francesca Rosa

• Markovian models for characterizing power system resilience (M) . (December 2020)

Author: Valentina Caprariello

• Optimal design of behind the meter energy storage (M). (December 2020)

Author: Gianmarco Castiello

 \bullet Techno-economical analysis of energy storage participating to electricity markets (M) . (December 2020)

Author: Giuseppe Falco

 Experimental analysis of PMU open data from transmission networks (M). (December 2020)

Author: Ernesto Casciano

SUMMER SCHOOLS -

PhD schools

- The path towards grid modernization. (University of Salerno, July 2019)
- Advanced game-theoretic models: Analysis, computation and applications to power markets (Denmark Technical University, May 2019)
- Load forecasting and control. (Politecnico di Torino, September 2018)

Others

Summer school on energy efficiency (ENEA, Rome, July 2018)