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# **Intelligent Forecasting and Optimization in Electrical Power Systems**

Guest Editors:

#### Prof. Dr. Paweł Piotrowski

Electrical Power Engineering Institute, Warsaw University of Technology (WUT), Koszykowa 75 Street, 00-661 Warszawa, Poland

#### Dr. Grzegorz Dudek

Faculty of Electrical Engineering, Czestochowa University of Technology, 42-201 Częstochowa, Poland

#### Prof. Dr. Dariusz Baczyński

Electrical Power Engineering Institute, Warsaw University of Technology (WUT), Koszykowa 75 Street, 00-661 Warszawa, Poland

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### **Message from the Guest Editors**

This Special Issue focuses on applications of artificial intelligence and machine learning models (including hybrid and ensembles methods) for forecasting and optimization in power engineering. Effective operation of electrical power systems of various sizes (including microgrids) require precise short-term forecasts of both electricity generation in Renewable Energy Systems and electricity demand.

Forecasts of generation in RES are important for owners of small energy systems in order to optimize the use of various energy sources and facilitate energy storage.

Expected topics include, but are not limited to:

- Artificial intelligence/machine learning/deep learning for forecasting of electricity generation in RES,
- Artificial intelligence/machine learning/deep learning for forecasting of power demand in electrical power systems
- Optimization of electrical power systems,
- Forecasting of meteorological data (wind speed, solar radiation) important to forecast electricity generation in RES
- Statistical analysis of data for forecasting models (including problems of big, missing, distorted and uncertain data),
- Reliability of electrical power systems.







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## **Editor-in-Chief**

#### Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

### Message from the Editor-in-Chief

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*Energies* Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/energies energies@mdpi.com X@energies\_mdpi