

## Special Issue

# Machine Learning in Power System Dynamic Security Assessment

### Message from the Guest Editor

This Special Issue will deal with novel approaches to the power system dynamic security assessment, and related power disturbance issues, which are based on the applications of machine learning, deep learning, and reinforcement learning techniques. It will also deal with problems related to advanced data acquisition (wide-area measurement systems) and data-sets preparation (statistical processing, features engineering, encoding, embedding). Topics of interest for publication include, but are not limited to, applications of machine learning, deep learning, and reinforcement learning in the following:

- Power system dynamic security assessment;
- Transient stability assessment;
- Small signal stability analysis;
- Voltage stability assessment;
- Frequency stability assessment;
- Power quality disturbance analysis;
- Advanced metering, data acquisition, and monitoring;
- Analysis of electrical network vulnerabilities and threats;
- Intelligent monitoring and outage management (self-healing grids);
- Dynamic security assessment of mixed AC-DC power systems;
- Impact of new technologies (FACTS/HVDC) on power system stability;
- Stability and security analysis of future networks.

### Guest Editor

Dr. Petar Sarajcev

FESB, Department of Power Engineering, University of Split, R. Boskovic 32, HR-21000 Split, Croatia

### Deadline for manuscript submissions

closed (31 March 2022)



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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[energies@mdpi.com](mailto:energies@mdpi.com)

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### Message from the Editor-in-Chief

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### Editor-in-Chief

Prof. Dr. Enrico Sciubba

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

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