

## Special Issue

# Probabilistic Methods for Power System Resilience Assessment

### Message from the Guest Editor

The concept of resilience is playing a more and more important role in modern power systems, also influencing recent regulations in the electricity sector in many countries. Severe weather events and cyberattacks affecting power systems are an increasing concern for operators and institutions, due to climate change and growing interdependences between power and ICT infrastructures. Researchers worldwide have recently proposed indicators to quantify resilience, based on concepts of probability and risk and modeling system threats and component vulnerability. Multidisciplinary approaches are thus needed, which require experts from different fields (power system engineers, meteorologists, climatologists, cyber experts, statisticians and data analysts, etc.) to work together to develop probabilistic approaches. The Special Issue is intended for a wide and interdisciplinary audience and covers topics in probabilistic risk-based approaches to power system resilience assessment.

---

### Guest Editor

Dr. Andrea Pitto

Ricerca sul Sistema Energetico - RSE S.p.A., Milan, Italy

---

### Deadline for manuscript submissions

closed (30 November 2020)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/34515](https://mdpi.com/si/34515)

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

[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)



## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )