



## Power System Reliability

Guest Editor:

**Prof. Dr. Rajesh Karki**

Department of Electrical and  
Computer Engineering, University  
of Saskatchewan, Saskatoon, SK  
S7N 5A9, Canada

Deadline for manuscript  
submissions:

**closed (30 June 2019)**

### Message from the Guest Editor

Dear Colleagues,

The objective of the modern power system is to ensure the supply reliability at an acceptable cost while meeting environmental compliance. The renewable energy resources are being integrated at different levels of the power system because of their reduced adverse environmental impact as compared to fossil fuel-based resources. However, the increased penetration of these resources has introduced uncertainty and variability in the electric power system, which is a major concern for the system planning and the stable operation of the electric grid. Furthermore, there is a growing interest in the integration of different energy storage technologies to cope with the challenges brought by renewable energy resources. Research is being carried out to address the issues emerging from the ongoing changes in the modern power system. This Special Issue aims to present novel approaches for reliable power system planning and operation and the implications of renewable energy resources and storage technologies in power systems to achieve a reliable and cost-effective sustainable energy system.

Prof. Dr. Rajesh Karki  
*Guest Editor*





an Open Access Journal by MDPI

## Editor-in-Chief

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

## 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.

## 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, Embase, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

## Contact Us

---

*Applied Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/applsci](http://mdpi.com/journal/applsci)  
[applsci@mdpi.com](mailto:applsci@mdpi.com)  
[X@Applsci](https://twitter.com/Applsci)