



## Reliability of Materials and the Systems

Guest Editors:

**Prof. Dr. Hyunseok Oh**

School of Mechanical  
Engineering, Gwangju Institute of  
Science and Technology,  
Gwangju 61005, Korea

**Prof. Dr. Sang-Jae Kim**

Department of Mechatronics  
Engineering, Jeju National  
University, Jeju, Jeju-si 63243,  
Republic of Korea

**Prof. Dr. Insu Jeon**

Department of Mechanical  
Engineering, Chonnam National  
University, 77 Yongbong-ro, Buk-  
gu, Gwangju 61186, Korea

Deadline for manuscript  
submissions:

**closed (24 July 2020)**

### Message from the Guest Editors

Dear Colleagues,

Reliability is now receiving significant attention from industries such as electronics, automotive, heavy-chemical industries, and power plants. The international competitiveness of industries in a globalized economy is closely tied to the high reliability of materials and systems.

To this end, this Special Issue showcases the latest reliability theory and applications, prognostics and health management (PHM) research trends, advanced material processing technologies, reliability assessment, theoretical and experimental reliability analysis, and other related topics.

This Special Issue welcomes full article submissions from presenters, and speakers at the Annual Conference of the Reliability Division of the Korean Society of Mechanical Engineers (KSME), held February 26–28, 2020 in Jeju, Republic of Korea.

Warm Regards,  
Prof. Dr. Hyunseok Oh  
Prof. Dr. Sang-Jae Kim  
Prof. Dr. Insu Jeon  
*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), Inspec, CAPlus / SciFinder, and other databases.

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

## Contact Us

---

Applied Sciences Editorial Office  
MDPI, St. Alban-Anlage 66  
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)  
[appls@mdpi.com](mailto:appls@mdpi.com)  
[X@Appls](#)