



## Transforming Risk and Reliability Engineering through Artificial Intelligence and Model-Based Paradigms

Guest Editor:

**Dr. Bryan M. O'Halloran**

Department of Systems  
Engineering, Naval Postgraduate  
School, Monterey, CA 93943, USA

Deadline for manuscript  
submissions:

**closed (20 November 2023)**

### Message from the Guest Editor

Dear Colleagues,

This Special Issue provides a platform for researchers, practitioners, and professionals to share their latest research findings, case studies, and developments in the areas of risk and reliability in systems engineering, including the emerging technologies of MBSE, MBPD, and AI. In addition to traditional topics such as risk analysis, reliability engineering, and systems safety, this Special Issue welcomes topics such as condition-based maintenance (CBM), system resilience, availability modeling, risk-based decision making, uncertainty modeling, probabilistic risk assessment (PRA), and more. By addressing these emerging topics, the Special Issue will help to update readers on the latest developments in the field and gain a deeper understanding of the challenges and opportunities that lie ahead.

For detailed information, please visit:  
[mdpi.com/journal/systems/special\\_issues/330790EN20](https://mdpi.com/journal/systems/special_issues/330790EN20)

Dr. Bryan M. O'Halloran  
*Guest Editor*





# systems



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. William T. Scherer**

Chair, Department of Systems  
and Information Engineering,  
University of Virginia,  
Charlottesville, VA 22904, USA

## Message from the Editor-in-Chief

*Systems* is a leading venue for the quick and global dissemination of results of cutting-edge research in various areas of systems science and systems-related fields. An increasing number of researchers are realizing the enormous potential of systems thinking in managing the many unprecedented and complex issues in all areas of need. The *Systems* journal provides a home of exceptional quality for the manuscripts of these researchers who often find it difficult to publish their work in conventional discipline focused journals.

## Author Benefits

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

**High Visibility:** indexed within Scopus, SSCI (Web of Science), dblp, and other databases.

**Journal Rank:** JCR - Q1 (Social Sciences, Interdisciplinary) / CiteScore - Q2 (*Modeling and Simulation*)

## Contact Us

---

Systems Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/systems  
systems@mdpi.com  
X@Systems\_MDPI