



Security Research and Challenges in Cyber-Physical Systems

Guest Editors:

Dr. You-Jin Song

Department of Information Management, Dongguk University, Gyeongju-si, Gyeongsangbuk-do 38066, Korea

Prof. Dr. Howoon Kim

Department of Aviations Information & Communication Engineering, Kyungwoon University, Gumi-si, Gyeongsangbuk-do 39160, Korea

Dr. Hyun-Jong Cha

Department of Multimedia Science, Chungwoon University, Michuhol-gu, Incheon-si 22100, Korea

Message from the Guest Editors

This Special Issue of "Security Research and Challenges in Cyber-Physical Systems" publishes high-quality research papers, including discussing and reviewing various challenges and opportunities for implementing next-generation cybersecurity in CPS. This Special Issue targets academic and industrial researchers, engineers, and practitioners interested in intelligent models of CPS systems, cybersecurity and resilience issues. In addition, as a way to enhance security without compromising system availability, which is important for all CPS security issues, we would like to address, in depth, how to use artificial intelligence (AI) and the recent application of blockchain technology. This Special Issue provides new ideologies, methodologies, and solutions for addressing these challenges.

The Special Issue will select papers related to the following topics but will not be limited to these:

- Data security in a cyber-physical system;
- Service resilience in a cyber-physical system;
- Intelligent models in a cyber-physical system;
- Artificial intelligence for enhancing cybersecurity in CPSs;
- Machine learning for cybersecurity and privacy protection in a CPS;

Deadline for manuscript submissions:
closed (10 October 2022)





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 - Q1 (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

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)