

Special Issue

Non-linear Devices, Systems, Networks and Their Applications

Message from the Guest Editor

Recent years have been characterized by resurged and increasing interest in the study of non-linear dynamics in engineered devices and systems. While traditionally treated as a hindrance to the synthesis of effective signal processing and control solutions, non-linear dynamics, including chaotic dynamics, deeply pervade nature, including physical, chemical and biological systems. They underpin self-organization and, in particular, the energy and volume-efficient solution of highly complex computational problems. Despite the relative paucity of analysis and synthesis tools in this area, the engineering community is increasingly looking at non-linear devices, systems and networks as elegant means of solving the challenges related, for example, to distributed computing and the internet-of-things. At the same time, the centrality of non-linear dynamics to all processes taking place in neural, and more generally physiological, systems has become unquestionable, with strong implications for the design of future biomedical and bio-inspired systems.

Guest Editor

Dr. Ludovico Minati

School of Life Science and Technology, University of Electronic Science and Technology of China, Chengdu 611731, China

Deadline for manuscript submissions

closed (31 December 2021)



Applied System Innovation

an Open Access Journal
Published by MDPI

Impact Factor 3.7
CiteScore 9.9



mdpi.com/si/17170

Applied System Innovation
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
asi@mdpi.com

mdpi.com/journal/asi





Applied System Innovation

an Open Access Journal
Published by MDPI

Impact Factor 3.7
CiteScore 9.9



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



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Christos Douligeris
Department of Informatics, University of Piraeus, 18534 Piraeus,
Greece

Author Benefits

Open Access:

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

High Visibility:

indexed within Scopus, ESCI (Web of Science), Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) /
CiteScore - Q1 (Applied Mathematics)