





an Open Access Journal by MDPI

Application of Non-linear Dynamics

Guest Editors:

Dr. Roman Starosta

Institute of Applied Mechanics, Poznan University of Technology, 3 Piotrowo Str., 60-965 Poznań, Poland

Prof. Dr. Jan Awrejcewicz

Faculty of Mechanical Engineering, Lodz University of Technology, 90-924 Łódź, Poland

Deadline for manuscript submissions:

closed (20 May 2022)

Message from the Guest Editors

Dear Colleagues,

Nonlinear dynamics was originally developed as a new area of research in applied physics and mathematics. Now, it is known that most physical processes and phenomena are non-linear. Although many issues are roughly taken as linear and that approach gives satisfactory results, there are some practical problems where non-linear effects need to be considered. Some observable phenomena like chaos, synchronization, multistability, jump or hysteresis in resonance, etc. can only be captured in the non-linear models. Sometimes, nonlinear behavior of the system is desired and could give many advantages: increase efficiency, stability, or control.

This Special Issue is focused on contemporary applications, innovative theories, and challenges related to nonlinear dynamics in various branches of science and technology.











an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola CerulloDipartimento 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