

Special Issue

Mathematical Modeling using Differential Equations, and Network Theory

Message from the Guest Editor

This special issue aims at collecting latest results on Differential/Difference Equations, Mathematics of Networks, and their applications into Electrical Power Systems, Materials, Energy, Macroeconomics, etc. This Special Issue will accept high-quality papers having original research results, and its purpose is to bring together Mathematicians with Physicists, Engineers, as well as other scientists. **Topics covered but not limited to:**

- Differential/Difference equations
- Dynamical systems
- Mathematics of Networks
- Fractional calculus
- Modelling and Stability Analysis of Power Systems
- Discrete calculus
- Circuits Theory
- Signal Processing
- Materials Science
- Energy Systems
- Macroeconomics

Guest Editor

Dr. Ioannis Dassios

School of Electrical and Electronic Engineering, University College Dublin, D04 V1W8 Dublin, Ireland

Deadline for manuscript submissions

closed (31 December 2019)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/21133

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

mdpi.com/journal/

[appls](https://appls.mdpi.com)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



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



About the Journal

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.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)