





an Open Access Journal by MDPI

# New Trends in Function Spaces and Partial Differential Equations: Theory and Applications to Physical Processes

Guest Editors:

## Prof. Dr. Ruggieri Marianna

Faculty of Engineering and Architecture, University of Enna "KORE", 94100 Enna, Italy

#### Dr. Andrea Scapellato

Dipartimento di Matematica e Informatica, Università degli Studi di Catania, Viale Andrea Doria 6, 95125 Catania, Italy

Deadline for manuscript submissions:

closed (31 May 2021)

# **Message from the Guest Editors**

Dear Colleagues,

The aim of this Special Issue is to collect and announce the recent trends and improvements in the theory of function spaces and partial differential equations. Papers dealing with issues in the contexts of both standard and nonstandard function spaces with possible applications to partial differential equations are welcome. This Special Issue also covers studies on deterministic and stochastic partial differential equations that describe physical and biological processes. In view of this wide spectrum of topics, papers that deal with theoretical aspects as regularity, existence, uniqueness as well as both analytic and numerical methods for the analysis of solutions will be considered. Moreover, the Special Issue will cover a wide range of mathematical problems in modern applied sciences with particular regards to classical and continuum models from an impressive array of disciplines, including: mathematical physics, biology, engineering problems, fluid and solid mechanics, physics and computer science.....

Prof. Ruggieri Marianna Dr. Andrea Scapellato *Guest Editors* 











an Open Access Journal by MDPI

## **Editor-in-Chief**

#### Prof. Dr. Francisco Chiclana

School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

## Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The iournal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering sociology. particularly those that and stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

### **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), RePEc, and other databases.

**Journal Rank:** JCR - Q1 (*Mathematics*) / CiteScore - Q1 (*General Mathematics*)

#### **Contact Us**