Research Trends and Challenges in the Theory of Nonlinear Analysis and Its Applications

Guest Editor:

Dr. Sumit Chandok
School of Mathematics, Thapar Institute of Engineering and Technology, Patiala 147004, India

Message from the Guest Editor

The primary goal of this Special Issue, entitled "Research Trends and Challenges in the Theory of Nonlinear Analysis and Its Applications", is to provide a platform for researchers and academicians to report on new initiatives and developments in nonlinear analysis and applications. Original research as well as review articles are encouraged.

Potential topics include but are not limited to the following:

- Nonlinear operator theory and applications;
- Nonlinear analysis in fractional calculus;
- New iteration procedures for approximation of fixed points;
- Optimization problems and applications;
- Variational inequality problems and their applications;
- Best proximity point theorems and their applications;
- Quantum calculus in approximation theory;
- Integral inclusion problems and their solutions;
- Multifunction systems and their solutions;
- New abstract metrics spaces and their topological properties;
- Stability of functional equations;
- Topological approaches in nonlinear problems;
- Multivalued problems;
- Artificial neural networks and image processing problems.

Special Issue

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 journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that 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.

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