Journal of Function Spaces

Special Issue on
Recent Research Trends in Nonlinear Operator Theory

Hindawi

CALL FOR PAPERS

This special issue is focused on latest developments in Nonlinear Operator Theory and its applications. Nonlinear Operator Theory falls within the general area of Nonlinear Functional Analysis, an area which has been of increasing research interest in recent years. Nonlinear Operator Theory applies to diverse nonlinear problems in many areas such as differential equations, nonlinear ergodic theory, game theory, optimization problems, control theory, variational inequality problems, equilibrium problems, and split feasibility problems. This special issue will reflect both the state-of-the-art theoretical research and important recent advances in applications. We are interested in high quality articles that will outline recent progress in this area of research.

In addition to the topics listed below, high quality articles in function algebras, Banach algebras, spaces of analytic functions, Lp spaces, geometric properties of Banach spaces, isometries of function spaces, and related problems will be considered. Moreover, articles on current state-of-the-art and future research trends in function spaces, theory of function spaces of type B^s_{pq} and F^s_{pq} shall equally be entertained.

Potential topics include, but are not limited to:

- Nonlinear ergodic theory and applications
- Optimization problems, equilibrium problems, split feasibility problems, and applications
- Convergence and stability of iterative algorithms
- Best approximation theorems in abstract spaces
- Multivalued and monotone mappings in ordered sets
- Solutions of differential equations and differential inclusions
- Solutions of nonlinear operator equations and inclusion problems
- Spectra theory
- Nonlinear integral equations and applications
- Fixed point theory and its applications, which may include
  - Degree of fixed point index for various types of maps
  - Application to nonmetric spaces like modular function spaces
  - Applications to logic programming and directed graphs
  - Existence and approximation of fixed points of single-valued and multivalued mappings in Banach spaces, Metric spaces, and generalized metric spaces

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