



9th Iranian Joint Congress on Fuzzy and Intelligent Systems (CFIS2022)

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Title of specialized session: Fuzzy Numerical Analysis

Abstract:

It is known that if the data in any mathematical model contains inaccuracies or ambiguities, fuzzy set theory plays an important role in dealing with the so-called fuzzy mathematical models. Today, fuzzy numerical analysis is one of the main branches of fuzzy mathematics, which consists of mathematical approximation techniques and computational methods. In addition, the applications of fuzzy numerical methods can be found in a wide range of problems in engineering, physical sciences, life, and medical sciences, economics, psychology, etc., and in general in problems that classical logic and analytical methods cannot provide a solution. We would like to inform you that the special session on "Fuzzy Numerical Analysis" welcomes research papers including the study, design, development, analysis, and/or programming of numerical designs.

Key Words:

- Numerical Soft Computing, Numerical methods for fuzzy system of linear equations, Fuzzy fixed point theorem, Fuzzy optimization problems, Fuzzy (Fractional) differential equation, Fuzzy (Fractional) partial differential equations, Fuzzy stochastic differential equations, Fuzzy delay differential equations, Fuzzy impulsive differential equations, Fuzzy integral equations, Fuzzy integral and differential (integro-differential) equations, Fuzzy set-valued and variational analysis, Fuzzy numerical analysis related to fuzzy linear algebra, Finding the roots of fuzzy non-linear equations, Fuzzy quantum dynamics and applications, Fuzzy control problems.
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