



A Special Issue of

## Journal of Risk Analysis and Crisis Response

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on

### Managing Risks and Crises Through Fuzzy Sets

#### CALL FOR PAPERS

The Journal of Risk Analysis and Crisis Response aims to promote the development of science and technology in the field of risk analysis and crisis response, to provide a forum for sharing theory and applications in this field, and for exchanging research findings and case studies. The journal will stimulate intellectual debate on risk and crisis, addressing the growing concern about the role of risk and crisis in modern society among industry officials, researchers, regulators and academics and increasing exchanges among those engaged in risk analysis and crisis response.

This special issue focuses on risk and crisis response by using fuzzy approaches including the recent extensions of fuzzy sets such as intuitionistic fuzzy sets, neutrosophic sets, or picture fuzzy sets. This special issue is on the theory and practice of fuzzy techniques for risk and crisis management. Types of risks and crisis to handle in this issue are as follows:

- Risks caused by natural disasters and environmental hazards
- Health and safety risk assessment and management
- Risk issues in industrial systems and engineering projects
- Risks faced by society, economics, finance, insurance and investment
- Climate change, emerging risks and ecological disasters
- Crisis response and emergency management to outbreaks
- Mathematical modeling and decision-making
- Big data, internet platform and risk radar

Theoretical and/or practical integration of the followings for managing risks and crisis:

- Type-2 fuzzy sets,
- Hesitant fuzzy sets,
- Intuitionistic fuzzy sets,
- Spherical fuzzy sets,
- Picture fuzzy sets,
- Pythagorean fuzzy sets,
- Q-rung orthopair fuzzy sets,
- Neutrosophic sets,
- Fermatean fuzzy sets

and integration of fuzzy sets theory with the followings for managing risks and crises:

- Bayesian Networks
- Chaotic Systems
- Combinatorial Search
- Complex Systems
- Distributed Artificial Intelligence
- Embedded Systems
- Evolutionary Systems
- Genetic Algorithms
- Genetic Programming
- Machine Learning
- Neural Fuzzy Systems
- Neural Genetic Systems
- Neural network
- Pattern Recognition
- Qualitative Reasoning
- Reinforcement Learning
- Support Vector Machines
- Swarm Intelligence

### **Special Issue Important Dates**

Deadline for Submission of papers: December 31, 2022

The end of the first round: February 28, 2023

The end of the second round: April 30, 2023

Deadline for the acceptance / rejection decisions: May 30, 2023

### **Guest Editor**

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