



# Editorial on Special Issue: “Applications of Intelligent and Fuzzy Theory in Data Science”

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The importance and impact of intelligent and fuzzy theory have been boosted since the great development has been made in the field of artificial intelligence and information technologies. It has been deeply applied in many fields including intelligent systems, control and synchronization, medical and fault diagnosis systems. Data science is a discipline which utilizes data to extract valuable knowledge. As an emerging discipline, the data science aggregates several fields that include the classical statistics, data mining, databases, and distributed systems. Applications of intelligent and fuzzy theory in data science are an interdisciplinary area focusing upon methodologies for extracting useful intelligent systems and its applications under uncertain environment.

This special issue provides a comprehensive and systematic perspective on the application of intelligence and fuzzy theory in data science, which will raise novel approaches, models, systems, and new application practices in the field. A special emphasis have been placed on the fuzzy logic and fuzzy systems, evidence theory, evidential reasoning, data analysis, knowledge discovery,

information aggregation and fusion, multi-criteria decision-making, multisource information fusion, etc.

The IJFS special issue on Applications of Intelligent and Fuzzy Theory in Data Science is confirmed by nine high-quality, original and innovative research contributions. The titles of these nine papers are as follows: Combining Conflicting Evidence by Constructing Evidence’s Angle-Distance Ordered Weighted Averaging Pairs (Published: 04 November 2020), Multiple Attribute Variable Weight Fuzzy Decision-Making Based on Optimistic Coefficient Method (Published: 05 February 2021), Multi-Objective Multi-Skill Resource-Constrained Project Scheduling Problem Under Time Uncertainty (Published: 05 February 2021), A Prospect Theory-Based Evidential Reasoning Approach for Multi-expert Multi-criteria Decision-Making with Uncertainty Considering the Psychological Cognition of Experts (Published: 31 October 2020), Distance-Based Large-Scale Group Decision-Making Method with Group Influence (Published: 05 February 2021), Modeling Interactive Multiattribute Decision-Making via Probabilistic Linguistic Term Set Extended by Dempster–Shafer Theory (Published: 05 February 2021), An Attitudinal Nonlinear Integral and Applications in Decision-Making (Published: 03 June 2020), Fuzzy-Logic-Inspired Zone-Based Clustering Algorithm for Wireless Sensor Networks (Published: 14 September 2020), and New Changes of Basic Economic Characteristics of Modern Monopoly Capitalism Based on Fuzzy System (Published: 05 February 2021).

We would like to express our sincere appreciations to the authors who have contributed their recent research ideas, results and achievements to this special issue. Our recognitions also go to the reviewers that have taken their time to help in the improvement of the quality of the submissions to the special issue. Last but not least, we are delighted to work with and offer our special gratitude to the

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