



## Special Issue on Fuzzy Sets and Systems Theory: Recent Advances and Developments — On the Occasion of the Memory of Prof. Loti Askar Zadeh, the Founder of Fuzzy Sets Theory

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BULLETIN

## Special Issue on Fuzzy Sets and Systems Theory: Recent Advances and Developments — On the Occasion of the Memory of Prof. Loti Askar Zadeh, the Founder of Fuzzy Sets Theory

### Call For Papers



**S.H. Nasser**  
University of Mazandaran, Babolsar, Iran

4 December 2017

**Honorary Editor: Prof. L.A.Zadeh (1921, Feb. 4 - 2017, Sep. 6)**



### Guest Editors:

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The FIAE (Fuzzy Information and Engineering Journal) publishes scientific papers reporting original research and/or applications in the field of Fuzzy Sets Theory and its Applications including a wide area of topics from pure and applied mathematics, computer science, engineering, and other related fields of its scopes.

**Fuzzy set theory** have been used in a wide range of domains in which information is incomplete or imprecise, such as bioinformatics and etc. The main scope of this special issue is related to the recent advances and developments of fuzzy sets and systems on the memory of the founder of fuzzy sets theory, Prof. Lotfi Askar Zadeh (1921, Feb. 4 - 2017, Sep. 6). Following that, the objective of this special issue of FIAE is to present recent and considerable advances on the following (but not limited to) issues:

1. Fuzzy Information

- a. Fuzzy information theory and information systems
- b. Fuzzy clustering and classification
- c. Fuzzy information processing
- d. Hardware and software co-design
- e. Fuzzy computer
- f. Fuzzy database and data mining
- g. Fuzzy image processing and pattern recognition
- h. Fuzzy information granulation
- i. Knowledge acquisition and representation in fuzzy information

2. Fuzzy Sets and Systems

- a. Fuzzy sets
- b. Fuzzy analysis
- c. Fuzzy topology and fuzzy mapping
- d. Fuzzy equation
- e. Fuzzy programming and optimal
- f. Fuzzy probability and statistic
- g. Fuzzy logic and algebra
- h. General systems
- i. Fuzzy socioeconomic system
- j. Fuzzy decision support system
- k. Fuzzy expert system

3. Soft Computing

- a. Soft computing theory and foundation
- b. Nerve cell algorithms
- c. Genetic algorithms
- d. Fuzzy approximation algorithms
- e. Computing with words and Quantum computation

4. Fuzzy Engineering

- a. Fuzzy control
- b. Fuzzy system engineering

- c. Fuzzy knowledge engineering
  - d. Fuzzy management engineering
  - e. Fuzzy design
  - f. Fuzzy industrial engineering
  - g. Fuzzy system modeling
5. Fuzzy Operations Research
- a. Fuzzy evaluation and decision-making
  - b. Fuzzy overall plans and scheduling
  - c. Fuzzy prediction and forecasting
  - d. Fuzzy countermeasure
  - e. Fuzzy graph theory and network flow
  - f. Fuzzy management in knowledge
6. Artificial Intelligence
- a. Fuzzy basis system in knowledge
  - b. Approximate reasoning and fuzzy reasoning machine
  - c. Fuzzy neural networks
  - d. Intelligent controls and robots
  - e. Fuzzy automata
  - f. Statistical learning theory and support vector machine
7. Others
- a. Rough sets theory and its applications
  - b. Fuzzy grey systems
  - c. Fuzzy education
  - d. Fuzzy linguistics
  - e. Fuzzy biology

Furthermore, the articles of Fuzzy Logic, Fuzzy Reasoning, Fuzzy Engineering and Fuzzy Artificial Intelligence are even more welcome.

### **Manuscript Preparation and Submission**

All Manuscripts submitting in the FIAE should conform to the standard editorial and publication policies as mentioned in the journal. The authors should submit the manuscript to *j-ifiecao@126.com*.

### **Important Dates:**

- a. January 25, 2018: Paper submission
- b. February 25, 2018: First Notification
- c. March 25, 2018: Revised Manuscript
- d. April 25, 2018: Notification of Acceptance
- e. May 2018: Anticipated publication

### **Remarks for Prospective Authors:**

- a. Early submission is strongly recommended due to the fact that the review pro-

cess will start as soon as we receive the paper. The online format of any accepted paper will be provided sooner than its print.

b. Manuscripts submitted to the FIAE should not have been already published nor be currently under consideration for publication elsewhere.

### **Reviewing**

Manuscripts submitted to the FIAE will be peer-reviewed and will necessarily need to show quality by following ways:

*For research topics:* originality of topic and developed mathematical models, quality of results, considerable contributions to the ancillary field.

*For application topics:* initiatives, novel and untouched applications, managerial implications, environmental and social impacts.