

In the Name of God

IRANIAN JOURNAL OF FUZZY SYSTEMS

HONORARY CHAIRMAN

L. A. Zadeh, *University of California, Berkeley, USA*

EDITOR-IN-CHIEF

M. Mashinchi, *Shahid Bahonar University of Kerman, Kerman, Iran*

MANAGING EDITOR

R. A. Borzooei, *Shahid Beheshti University, Tehran, Iran*

EDITORIAL BOARD

N. R. Arghami , <i>Mashhad, Iran</i>	W. Pedrycz , <i>Edmonton, Canada</i>
A. Daneshgar , <i>Tehran, Iran</i>	M. K. Sen , <i>Calcutta, India</i>
E. Eslami , <i>Kerman, Iran</i>	A. Vahidian Kamyad , <i>Mashhad, Iran</i>
S. Katebi , <i>Shiraz, Iran</i>	J. L. Verdegay , <i>Granada, Spain</i>
R. Langari , <i>Doha, Qatar</i>	R. Viertl , <i>Wien, Austria</i>
A. Memariani , <i>Tehran, Iran</i>	M. M. Zahedi , <i>Kerman, Iran</i>
J. Mordeson , <i>Omaha, USA</i>	

ADVISORY BOARD

R. Aliev (<i>Baku, Azerbaijan</i>)	M. Jamshidi (<i>Albuquerque, USA</i>)	A. Ralescu (<i>Cincinnati, USA</i>)
M. Anvari (<i>Berkeley, USA</i>)	Y. B. Jun (<i>Chinju, South Korea</i>)	D. Ralescu (<i>Cincinnati, USA</i>)
J. Buckley (<i>Birmingham, USA</i>)	L. Koczy (<i>Budapest, Hungary</i>)	N. Sadati (<i>Tehran, Iran</i>)
P. Corsini (<i>Udine, Italy</i>)	Y. M. Liu (<i>Chengdu, China</i>)	F. G. Shi (<i>Beijing, China</i>)
B. De Baets (<i>Gent, Belgium</i>)	M. Mukaidono (<i>Kawasaki, Japan</i>)	A. Sostak (<i>Riga, Latvia</i>)
P. Diamond (<i>Brisbane, Australia</i>)	N. R. Pal (<i>Calcutta, India</i>)	M. Sugeno (<i>Kyoto, Japan</i>)
D. Dubois (<i>Toulouse, France</i>)	I. Perfilieva (<i>Ostrava, Czech</i>)	I. B. Turksen (<i>Toronto, Canada</i>)
S. C. Fang (<i>Raleigh, USA</i>)	H. Prade (<i>Toulouse, France</i>)	

SUBSCRIPTION RATE

Iranian Journal of Fuzzy Systems (IJFS) is published two-monthly by the University of Sistan and Baluchestan. Annual subscription rates (including packing and postage) are as follows: for university departments, libraries, industrial and other multiple-reader institutions in Iran 900,000 Rials, in other countries 40 EURO; for individuals in Iran 700,000 Rials, in other countries 30 EURO. Reprints of papers are available for 150,000 Rials per copy in Iran and 2 EURO per copy elsewhere (including packing and postage). For more information, please visit the website of the journal.

مجله Iranian Journal of Fuzzy Systems (IJFS) طی نامه شماره ۳/۲۹۱۰/۶۲ مورخ ۸۳/۱/۲۶ کمیسیون نشریات علمی کشور درجه علمی - پژوهشی دریافت نمود و از آگوست ۲۰۰۷ در پایگاه استنادی بین المللی ISI نمایه شده است.

Journal Address

Iranian Journal of Fuzzy Systems
University of Sistan and Baluchestan, P.O. Box 98135-987
Zahedan, Iran.
Tel & Fax: +98-54-33431060
E-mail: ijfs@usb.ac.ir
Homepage: <http://ijfs.usb.ac.ir>

IRANIAN JOURNAL OF FUZZY SYSTEMS

Volume 12 Number 1 February 2015

IJFS

University of Sistan and Baluchestan, Zahedan, Iran.

<i>M. Erdogan and I. Kaya</i> An Integrated Multi-Criteria Decision-Making Methodology Based on Type-2 Fuzzy Sets for Selection Among Energy Alternatives in Turkey	1
<i>A. Gavriluț And M. Agop</i> Approximation Theorems for Fuzzy Set Multifunctions in Vietoris Topology. Physical Implications of Regularity	27
<i>Y. Yue and J. Fang</i> Uniformities in Fuzzy Metric Spaces	43
<i>R. Ezzati, S. Khezerloo and S. Ziari</i> Application of Parametric Form for Ranking of Fuzzy Numbers	59
<i>L. Zhu, C. X. Zhu and X. J. Huang</i> Coupled Coincidence and Common Fixed Point Theorems for Single- Valued and Fuzzy Mappings	75
<i>M. Otadi and M. Mosleh</i> Minimal Solution of Fuzzy Linear Systems	89
<i>S. E. Abbas, M. A. Hebeshi and I. M. Taha</i> On Upper and Lower Almost Weakly Continuous Fuzzy Multifunctions	101
<i>M. Rahaman and R. Ahmad</i> Fuzzy Vector Equilibrium Problem	115
<i>S. Vaezzadeh and S. M. Vaezpour</i> Generalized Weakly Contractions in Partially Ordered Fuzzy Metric Spaces	123
Persian Translation of Abstracts	133

EXCHANGE AGREEMENTS**AKCE International Journal of Graphs and Combinatorics***Kalasalangam University, Tamil Nadu, India***Archivum Mathematicum***Masaryk University, Brno, Czech Republic***Balkan Journal of Geometry and its Applications***Balkan Society of Geometers, Bucharest, Romania***Bulletin of the Iranain Mathematical Society***University of Tehran, Tehran, Iran***Bulletin of the Korean Mathematical Society***The Korean Mathematical Society, Seoul, Korea***Bulletin of the Malaysian Mathematical Sciences Society***Universiti Sains Malaysia, Penang, Malaysia***Bulletin of the Polish Academy of Sciences/Mathematics***Polish Academy of Sciences, Warszawa, Poland***Czechoslovak Mathematical Journal***Academy of Sciences of the Czech Republic, Praha, Czech Republic***Demonstratio Mathematica***Warsawa University of Technology, Warszawa, Poland***Glasnik Matematički***University of Zagreb, Zagreb, Croatia***Houston Journal of Mathematics***University of Houston, Houston, Texas, USA***Hacettepe Journal of Mathematics and Statistics***Hacettepe University, Ankara, Turkey***International Journal of Applied Mathematics and Computer Science***University of Zielona Góra, Zielona Góra, Poland***Iranian Polymer Journal***Iran Polymer and Petrochemical Institute, Tehran, Iran***Italian Journal of Pure and Applied Mathematica***Via delle Scienze, Udine, Italy***Journal of Applied Mathematics and Computing***Sunmoon University, Asan, South Korea***Journal of the Egyptian Mathematical Society***Egyptian Mathematical Society, Cairo, Egypt***Journal of the Korean Mathematical Society***The Korean Mathematical Society, Seoul, Korea***Journal of Pure Mathematics***University of Calcutta, Kolkata, India*

Mathematica Bohemica

Academy of Sciences of the Czech Republic, Praha, Czech Republic

Mathematical Forum

Dibrugarh University, Dibrugarh, Assam, India

Mechanical & Aerospace Engineering Journal

Imam Hossein University, Tehran, Iran

Nihonkal Mathematical Journal

Niigata University, Niigata, Japan

Note di Matematica

Universita' Via per Arnesano, Lecce, Italy

Novi Sad Journal of Mathematics

Institute of Mathematics, Novi Sad, Yugoslavia

Quasigroups and Related Systems

Institute of Mathematics, Technical University, Wroclaw, Poland

Revista Colombiana de Matematicas

Universidad Nacional de Colombia, Bogota, Colombia

Saitama Mathematical Journal

Saitama University, Saitama, Japan

Soochow Journal of Mathematics

Soochow University, Taipei, Taiwan

Southeast Asian Bulletin of Mathematics

University of Hong Kong, Hong Kong, China

Tatra Mountains Mathematical Publications

Slovak Academy of Sciences, Bratislava, Slovakia

Turkish Journal of Fuzzy Systems

University of Gaziantep, Gaziantep, Turkey

Yokohama Mathematical Journal

Yokohama City University & Yokohama National University, Yokohama, Japan

IRANIAN JOURNAL OF FUZZY SYSTEMS

Aims and Scope

The two-monthly Iranian Journal of Fuzzy Systems (IJFS) aims to provide an international forum for refereed original research works in the theory and applications of fuzzy sets and systems in the areas of foundations, pure mathematics, artificial intelligence, control, robotics, data analysis, data mining, decision making, finance and management, information systems, operations research, pattern recognition and image processing, soft computing and uncertainty modeling.

Manuscripts submitted to the IJFS must be original unpublished works and should not be in consideration for publication elsewhere.

Instructions to Authors

The language of the journal is English. All accepted papers should also be prepared in AMS-TeX or LaTeX style and should be typed according to the style given in the journal homepage: <http://ijfs.usb.ac.ir>

Submission of Manuscripts

Manuscripts submitted for publication should be sent electronically to this URL address: <http://ijfs.usb.ac.ir> in pdf format.

Proofs and Reprints

Page proofs will be sent to the corresponding author to be checked for type setting and editing. There are no page charges and authors will receive only complimentary electronic reprint file.

Proposing Special Issue

If you are interested in proposing a special issue, please contact the editor-in-chief at: ijfs-editor@usb.ac.ir

The journal is indexed and abstracted in:

Science Citation Index Expanded (also known as SciSearch®)
Thomson ISI
ISC (Islamic World Science Citation Center)
Mathematical Reviews
Zentralblatt MATH
EBSCO
SCOPUS

Journal Address

Iranian Journal of Fuzzy Systems
University of Sistan and Baluchestan, P.O. Box 98135-987
Zahedan, Iran.
Tel & Fax: +98-54-33431060
E-mail: ijfs@usb.ac.ir
Homepage: <http://ijfs.usb.ac.ir>

ISSN: 1735-0654

*Published by the University of Sistan and Baluchestan and approved by
the Ministry of Science, Research and Technology of Iran and the Iranian Fuzzy Systems Society.*