

Table of Contents

International Journal of Fuzzy System Applications

Volume 6 • Issue 4 • October-December-2017 • ISSN: 2156-177X • eISSN: 2156-1761

An official publication of the Information Resources Management Association

Research Articles

- 1 **A Valid Scheme to Evaluate Fuzzy Definite Integrals by Applying the CADNA Library**
Mohammad Ali Fariborzi Araghi, Department of Mathematics, Central Tehran Branch, Islamic Azad University, Tehran, Iran
Samad Noeiaghdam, Department of Mathematics, Ardabil Branch, Islamic Azad University, Ardabil, Iran
- 21 **Stabilization and Control of Elastic Inverted Pendulum System (EIPS) Using Adaptive Fuzzy Inference Controllers**
Ashwani Kharola, Department of Mechanical Engineering, Graphic Era University, Dehradun, India
Pravin Patil, Department of Mechanical Engineering, Graphic Era University, Dehradun, India
- 33 **An Intuitionistic Fuzzy Multi-Criteria Decision-Making Method Based on an Exponential-Related Function**
Daniel Aikhuele, Universiti Malaysia Pahang, Pekan, Malaysia
Faiz Turan, Faculty of Manufacturing Engineering, Universiti Malaysia Pahang, Pekan, Malaysia
- 47 **Multiple Relations and its Application in Medical Diagnosis**
V. Shijina, Department of Mathematics, National Institute of Technology Calicut, Kozhikode, India
Sunil Jacob John, Department of Mathematics, National Institute of Technology Calicut, Kozhikode, India
- 63 **Fuzzy Logic Based Clustering Algorithm for Wireless Sensor Networks**
Hassan El Alami, Department of Communication Systems, National Institute of Post and Communication (INPT),
Rabat, Morocco
Abdellah Najid, Department of Communication Systems, National Institute of Post and Communication (INPT),
Rabat, Morocco
- 83 **An Efficient Time Series Forecasting Method Exploiting Fuzziness and Turbulences in Data**
Prateek Pandey, Jaypee University of Engineering and Technology, Guna, India
Shishir Kumar, Department of Computer Science and Engineering, Jaypee University of Engineering and
Technology, Guna, India
Sandeep Shrivastava, Jaypee University of Engineering and Technology, Guna, India

COPYRIGHT

The **International Journal of Fuzzy System Applications (IJFSA)** (ISSN 2156-177X; eISSN 2156-1761), Copyright © 2017 IGI Global. All rights, including translation into other languages reserved by the publisher. No part of this journal may be reproduced or used in any form or by any means without written permission from the publisher, except for noncommercial, educational use including classroom teaching purposes. Product or company names used in this journal are for identification purposes only. Inclusion of the names of the products or companies does not indicate a claim of ownership by IGI Global of the trademark or registered trademark. The views expressed in this journal are those of the authors but not necessarily of IGI Global.

The *International Journal of Fuzzy System Applications* is indexed or listed in the following: ACM Digital Library; Bacon's Media Directory; Cabell's Directories; DBLP; Google Scholar; INSPEC; JournalTOCs; MediaFinder; ProQuest Advanced Technologies & Aerospace Journals; ProQuest Computer Science Journals; ProQuest Illustrata: Technology; ProQuest SciTech Journals; ProQuest Technology Journals; SCOPUS; The Standard Periodical Directory; Ulrich's Periodicals Directory