

Table of Contents

International Journal of Rough Sets and Data Analysis

Volume 5 • Issue 1 • January-March-2018 • ISSN: 2334-4598 • eISSN: 2334-4601

An official publication of the Information Resources Management Association

SPECIAL ISSUE ON RECENT ADVANCES IN DATA ANALYSIS WITH COMPUTATIONAL INTELLIGENCE TECHNIQUES

EDITORIAL PREFACE

- VI *H. S. Behera, , Veer Surendra Sai University of Technology, Department of Computer Science Engineering and Information Technology, Odisha, India*
D. P. Mohapatra, , National Institute of Technology, Odisha, India

RESEARCH ARTICLES

- 1 **Probability Based Most Informative Gene Selection From Microarray Data**
Sunanda Das, Neotia Institute of Technology, Management and Science, Department of Computer Science and Engineering, Diamond Harbour, W. B., India
Asit Kumar Das, Indian Institute of Engineering Science and Technology, Shibpur, Department of Computer Science and Technology, Howrah, W. B., India
- 13 **FLANN + BHO: A Novel Approach for Handling Nonlinearity in System Identification**
Bighnaraj Naik, Veer Surendra Sai University of Technology, Department of Computer Application, Odisha, India
Janmenjoy Nayak, Department of CSE, Sri Sivani College of Engineering
H.S. Behera, Veer Surendra Sai University of Technology, Department of Computer Science Engineering and Information Technology, Odisha, India
- 34 **Detecting Communities in Dynamic Social Networks using Modularity Ensembles SOM**
Raju Enugala, SR Engineering College, Department of Computer Science and Engineering, Warangal, India
Lakshmi Rajamani, Osmania University, Hyderabad, India
Sravanthi Kurapati, Kakatiya University, Warangal, India
Mohammad Ali Kadampur, Saudi Electronic University, Department of Computer Science & Information Technology, Riyadh, Saudi Arabia
Y. Rama Devi, Chaitanya Bharathi Institute of Technology, Hyderabad, India
- 44 **An Artificial Intelligent Centered Object Inspection System Using Crucial Images**
Santosh Kumar Sahoo, Utkal University, Department of Electronics and Telecommunications Engineering, Bhubaneswar, India
B. B. Choudhury, Utkal University, Department of Mechanical Engineering, Bhubaneswar, India
- 58 **Covering Based Pessimistic Multigranular Approximate Rough Equalities and Their Properties**
Balakrushna Tripathy, VIT University, School of Computing Science and Engineering, Vellore, India
Radha Raman Mohanty, Indira Memorial College, Odisha, India
- 79 **An Optimal Policy with Three-Parameter Weibull Distribution Deterioration, Quadratic Demand, and Salvage Value Under Partial Backlogging**
Trailokyanath Singh, C. V. Raman College of Engineering, Department of Mathematics, Odisha, India
Hadibandhu Pattanayak, Institute of Mathematics and Applications, Department of Mathematics, Odisha, India
Ameeya Kumar Nayak, IIT Roorkee, Department of Mathematics, Roorkee, India
Nirakar Niranjan Sethy, Ravenshaw University, Odisha, India
- 99 **A Fuzzy Knowledge Based Fault Tolerance Mechanism for Wireless Sensor Networks**
Sasmita Acharya, VSS University of Technology, Department of Computer Application, Burla, India
C. R. Tripathy, VSS University of Technology, Department of Computer Science and Engineering, Burla, India
- 117 **Enhancement of TOPSIS for Evaluating the Web-Sources to Select as External Source for Web-Warehousing**
Harion Sharan Sinha, Jawaharlal Nehru University, New Delhi, India

Copyright

The **International Journal of Rough Sets and Data Analysis (IJRSDA)** (ISSN 2334-4598; eISSN 2334-4601), Copyright © 2018 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 Rough Sets and Data Analysis* is indexed or listed in the following: ACM Digital Library; Cabell's Directories; DBLP; Google Scholar