

# Table of Contents

## International Journal of Rough Sets and Data Analysis

Volume 3 • Issue 1 • January-March-2016 • ISSN: 2334-4598 • eISSN: 2334-4601

*An official publication of the Information Resources Management Association*

### Research Articles

- 1      Hybrid Clustering using Elitist Teaching Learning-Based Optimization: An Improved Hybrid Approach of TLBO**  
D.P. Kanungo, Department of Computer Science Engineering and Information Technology, Veer Surendra Sai University of Technology (VSSUT), Odisha, India  
Janmenjoy Nayak, Department of Computer Science Engineering and Information Technology, Veer Surendra Sai University of Technology (VSSUT), Odisha, India  
Bighnaraj Naik, Department of Computer Science Engineering and Information Technology, Veer Surendra Sai University of Technology (VSSUT), Odisha, India  
H.S. Behera, Department of Computer Science Engineering and Information Technology, Veer Surendra Sai University of Technology (VSSUT), Odisha, India
  
- 20     Chaotic Map for Securing Digital Content: A Progressive Visual Cryptography Approach**  
Dhiraj Pandey, JSS Aacdemty of Technical Education, Noida, India  
U. S. Rawat, Manipal University Jaipur, Jaipur, India
  
- 36     Illness Narrative Complexity in Right and Left-Hemisphere Lesions**  
Umberto Giani, University of Naples “Federico II”, Naples, Italy  
Carmine Garzillo, University of Naples “Federico II”, Naples, Italy  
Brankica Pavic, University of Naples “Federico II”, Benevento, Italy  
Maria Piscitelli, Center of Diagnostic and Rehabilitation, Sant’Agata dei Goti, Italy
  
- 55     A Rough Set Theory Approach for Rule Generation and Validation Using RSES**  
Hemant Rana, School of Computer and Information Sciences, Indira Gandhi National Open University, New Delhi, India  
Manohar Lal, School of Computer and Information Sciences, Indira Gandhi National Open University, New Delhi, India
  
- 71     Information Systems on Hesitant Fuzzy Sets**  
Deepak D., Department of Mathematics, National Institute of Technology Calicut, Kozhikode, India  
Sunil Jacob John, Department of Mathematics, National Institute of Technology Calicut, Kozhikode, India
  
- 98     I-Rough Topological Spaces**  
Boby P. Mathew, Department of Mathematics, St. Thomas College, Pala, Kerala, India  
Sunil Jacob John, Department of Mathematics, National Institute of Technology Calicut, Kerala, India
  
- 114    Rough Set Based Similarity Measures for Data Analytics in Spatial Epidemiology**  
Sharmila Banu K., School of Computing Science and Engineering, VIT University, Vellore, India  
B.K. Tripathy, School of Computing Science and Engineering, VIT University, Vellore, India

### COPYRIGHT

The **International Journal of Rough Sets and Data Analysis (IJRSDA)** (ISSN 2334-4598; eISSN 2334-4601), Copyright © 2016 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; DBLP; Google Scholar