

# International Journal of Machine Learning and Computing

## CONTENTS

---

---

### Volume 8, Number 1, February 2018

#### • Algorithm Design and Optimization

- Recursive Hierarchical Clustering Algorithm.....1  
*Pavani Y. De Silva, Chiran N. Fernando, Damith D. Wijethunge, and Subha D. Fernando*
- Random Rule Sets – Combining Random Covering with the Random Subspace Method.....8  
*Tony Lindgren*
- A Predictive Hill Climbing Algorithm for Real Valued multi-Variable Optimization Problem like PID Tuning.....14  
*Karthikeyan Nagarajan*
- An Improved Tree Seed Algorithm for Optimization Problems .....20  
*Murat Aslan, Mehmet Beskirli, Halife Kodaz, and Mustafa Servet Kiran*
- Prediction of Football Match Outcomes Based On Bookmaker Odds by Using k-Nearest Neighbor Algorithm .....26  
*Engin Esme and Mustafa Servet Kiran*

#### • Machine Learning and Neural Networks

- Machine Learning Approach for Stress Detection Using Wireless Physical Activity Tracker .....33  
*B. Padmaja, V. V. Rama Prasad, and K. V. N. Sunitha*
- Runoff Prediction with a Combined Artificial Neural Network and Support Vector Regression.....39  
*Ratiporn Chanklan, Nuntawut Kaoungku, Keerachart Suksut, Kittisak Kerdprasop, and Nittaya Kerdprasop*
- Estimating the Semen Quality from Life Style Using Fuzzy Radial Basis Functions .....44  
*Cemre Candemir*
- Deep Probabilistic NMF Using Denoising Autoencoders .....49  
*Satwik Bhattamishra*

#### • Image Analysis and Processing Technology

- Artwork Recognition for Panorama Images Based on Optimized ASIFT and Cubic Projection .....54  
*Dayou Jiang and Jongweon Kim*
- Using Deep Learning for Melanoma Detection in Dermoscopy Images .....61  
*Julie Ann A. Salido and Conrado Ruiz Jr.*
- The Silhouette Width Criterion for Clustering and Association Mining to Select Image Features .....69  
*Nuntawut Kaoungku, Keerachart Suksut, Ratiporn Chanklan, Kittisak Kerdprasop, and Nittaya Kerdprasop*
- Learning Random Forest from Histogram Data Using Split Specific Axis Rotation .....74

*Ram B. Gurung, Tony Lindgren, and Henrik Boström*

• **Computer Information Theory and Technology**

Visual Report Generation Tool for Grammar-Based Classifier System.....80

*Olgierd Unold, Agnieszka Kaczmarek, and Łukasz Culer*

Cloud Storage Comparative Analysis Amazon Simple Storage vs. Microsoft Azure Blob Storage .....85

*Zouheir Daher and Hassan Hajjdiab*