

Contents

User Identification of Keystroke Biometric Patterns with the Cognitive RAM Weightless Neural Net	1
Weng Kin Lai, Beng Ghee Tan, Ming Siong Soo and Imran Khan	
Topology-Aware Mechanism to Improve Routing in Mobile Ad Hoc Networks	13
Baidaa Hamza Khudayer, Mohammad M. Kadhum and Tat-Chee Wan	
An Adaptive Learning Radial Basis Function Neural Network for Online Time Series Forecasting	25
Mazlina Mamat, Rosalyn R. Porle, Norfarariyanti Parimon and Md. Nazrul Islam	
Incremental-Eclat Model: An Implementation via Benchmark Case Study	35
Wan Aezwani Bt Wan Abu Bakar, Zailani B. Abdullah, Md. Yazid B. Md Saman, Masita@Masila Bt Abd Jalil, Mustafa B. Man, Tutut Herawan and Abdul Razak Hamdan	
Fall Detection Using Visual Cortex Bio-inspired Model for Home-Based Physiotherapy System	47
Nor Surayahani Suriani	
Online Clustering of Narrowband Position Estimates with Application to Multi-speaker Detection and Tracking	59
Maja Taseska, Gleni Lamani and Emanuël A.P. Habets	
Taguchi-based Parameter Setting of Cuckoo Search Algorithm for Capacitated Vehicle Routing Problem	71
Mansour Alssager and Zulaiha Ali Othman	

IncSPADE: An Incremental Sequential Pattern Mining Algorithm Based on SPADE Property	81
Omer Adam, Zailani Abdullah, Amir Ngah, Kasypi Mokhtar, Wan Muhamad Amir Wan Ahmad, Tutut Herawan, Noraziah Ahmad, Mustafa Mat Deris, Abdul Razak Hamdan and Jemal H. Abawajy	
Choosing Geometric Dissimilarity Measure for Content Based Coral Reefs Image Retrieval	93
Wan Nural Jawahir Hj Wan Yussof, Muhammad Suzuri Hitam, Ezmahamrul Afreen Awalludin and Zainudin Bachok	
Block Compressive Sensing (BCS) Based Multi-phase Reconstruction (MPR) Framework for Video	105
Mansoor Ebrahim and Wai Chong Chia	
PAT and Px Code Sidelobe Reduction Using Wavelet Neural Network	117
Fayad Mohammed Ghawbar, Mustafa Sami, Nor Shahida Mohd Shah and Yasin Yousif	
Detecting Neighbor Discovery Protocol-Based Flooding Attack Using Machine Learning Techniques	129
Firas Najjar, Mohammad M. Kadhum and Homam El-Taj	
MFCC Global Features Selection in Improving Speech Emotion Recognition Rate.	141
Noor Aina Zaidan and Md Sah Salam	
A Parametric Study of Compact UWB Antenna with Multiple Notched-Band Functions	155
Md. Moinul Islam, Mohammad Tariqul Islam and Mohammad Rashed Iqbal Faruque	
Parallel Implementation of Morphological Operations on Binary Images Using CUDA.	163
Jun Ming Koay, Yoong Choon Chang, Shahirina Mohd Tahir and Sankaraiah Sreeramula	
Non Negative Matrix Factorization for Music Emotion Classification.	175
Nurlaila Rosli, Nordiana Rajae and David Bong	
Speech Enhancement Based on Noise Type and Wavelet Thresholding the Multitaper Spectrum	187
E.P. Jayakumar and P.S. Sathidevi	

Balinese Character Recognition Using Bidirectional LSTM Classifier	201
Saad Bin Ahmed, Saeeda Naz, Muhammad Imran Razzak, Rubiyah Yusof and Thomas M. Breuel	
An Automated Multiple Choice Grader for Paper-Based Exams	213
Abrar H. Abdul Nabi and Inad A. Aljarrah	
Nonlinear System Modelling Utilizing Second Order Augmented Statistics Complex Value Algorithm.	223
Chukwuemena Cyprian Amadi, Bukhari Che Ujang and Fazirulhisyam Bin Hashim	
Perceived Stress Scale and Brainwave Characteristic of Breastfeeding Women	237
Najidah Hambali, Noor Izzati Abd Halin, Zunairah Haji Murat and Nur Idora Abdul Razak	
Improved Speech Emotion Classification from Spectral Coefficient Optimization.	247
Inshirah Idris and Md Sah Salam	
Classification of EEG Signals Using Single Channel Independent Component Analysis, Power Spectrum, and Linear Discriminant Analysis	259
Handayani Tjandrasa and Supeno Djanali	
Comparison of Text Forum Summarization Depending on Query Type for Text Forums	269
Vladislav Grozin, Kseniya Buraya and Natalia Gusarova	
Vibro-Acoustic Fault Analysis of Bearing Using FFT, EMD, EEMD and CEEMDAN and Their Implications.	281
Satish Mohanty, Karunesh Kumar Gupta and Kota Solomon Raju	
An Evaluation of Convolutional Neural Nets for Medical Image Anatomy Classification	293
Sameer Ahmad Khan and Suet-Peng Yong	
Ant Colony Optimization and Feature Selection for Intrusion Detection	305
Tahir Mehmod and Helmi B. Md Rais	

Advances in Machine Learning and Signal Processing

Proceedings of MALSIP 2015

Soh, P.J.; Woo, W.L.; Sulaiman, H.A.; Othman, M.A.; Saat, M.S. (Eds.)

2016, IX, 312 p. 139 illus., 88 illus. in color., Hardcover

ISBN: 978-3-319-32212-4