

Contents

Stochastic DCA for Sparse Multiclass Logistic Regression	1
Hoai An Le Thi, Hoai Minh Le, Duy Nhat Phan, and Bach Tran	
Reformulation of the Quadratic Multidimensional Knapsack Problem as Copositive/Completely Positive Programs	13
D.V. Nguyen	
DC Programming and DCA for Enhancing Physical Layer Security in Amplify-and-Forward Relay Beamforming Networks Based on the SNR Approach	23
Nguyen Nhu Tuan and Dang Vu Son	
A Cash-Flow-Based Optimization Model for Corporate Cash Management: A Monte-Carlo Simulation Approach	34
Linus Krumrey, Mahdi Moeini, and Oliver Wendt	
Demand Side Management: A Case for Disruptive Behaviour	47
Dina Subkhankulova, Artem Baklanov, and David McCollum	
Enhancing Reduced Order Model Predictive Control for Autonomous Underwater Vehicle	60
Prashant Bhopale, Pratik Bajaria, Navdeep Singh, and Faruk Kazi	
Comparison of Feedback Strategies for Supporting Programming Learning in Integrated Development Environments (IDEs)	72
Jarno Coenen, Sebastian Gross, and Niels Pinkwart	
Using Online Synchronous Interschool Tournaments to Boost Student Engagement and Learning in Hands-On Physics Lessons	84
Roberto Araya, Carlos Aguirre, Patricio Calfucura, and Paulina Jaure	
Story-Based Multimedia Analysis Using Social Network Technique	95
Quang Hai Bang Tran, Thi Hai Binh Nguyen, Phong Nha Tran, Thi Thanh Nga Tran, and Quang Dieu Tran	

Plot-Creation Support System for Writing Novels	107
Atsushi Ashida and Tomoko Kojiri	
An Improved Algorithm for Mining Top-k Association Rules	117
Linh T.T. Nguyen, Loan T.T. Nguyen, and Bay Vo	
A Deep Architecture for Sentiment Analysis of News Articles	129
Dinh Nguyen, Khuong Vo, Dang Pham, Mao Nguyen, and Tho Quan	
Sentiment Polarity Detection in Social Networks:	
An Approach for Asthma Disease Management	141
Harry Luna-Aveiga, José Medina-Moreira, Katty Lagos-Ortiz, Oscar Apolinario, Mario Andrés Paredes-Valverde, María del Pilar Salas-Zárate, and Rafael Valencia-García	
An Overview of Information Discovery Using Latent Semantic Indexing	153
Roger Bradford	
Similarity Measures for Music Information Retrieval	165
Michele Della Ventura	
An Early-Biologisation Process to Improve the Acceptance of Biomimetics in Organizations	175
Nguyen-Truong Le, Joachim Warschat, and Tobias Farrenkopf	
Bidirectional Deep Learning of Context Representation for Joint Word Segmentation and POS Tagging	184
Prachya Boonkwan and Thepchai Supnithi	
A Model for a Computing Cluster with Two Asynchronous Servers	197
Hai T. Nguyen and T.V. Do	
A Review of Technologies for Conversational Systems	212
Julia Masche and Nguyen-Thinh Le	
Author Index	227

Advanced Computational Methods for Knowledge
Engineering

Proceedings of the 5th International Conference on
Computer Science, Applied Mathematics and
Applications, ICCSAMA 2017

Le, N.-T.; Do, T.; Nguyen, N.T.; Thi, H.A.L. (Eds.)

2018, XVI, 228 p. 92 illus., Softcover

ISBN: 978-3-319-61910-1