Table of Contents

Advancements in Tape Outpace Disk Technology Isabel Schwerdtfeger	1
An Adaptive Load-balancer for Task-scheduling in FastFlow Md Moniruzzaman, Kamran Idrees, Michael Rossbory, and Jose Gracia	6
Adaption of the n-way Dissemination Algorithm for GASPI Split-Phase Allreduce Vanessa End, Ramin Yahyapour, Christian Simmendinger, and Thomas Alrutz	13
Gauss-Jordan Matrix Inversion Speed-Up using GPUs with the Consideration of Power Consumption Mahmoud Shirazi, Mehdi Kargahi, and Farshad Khunjush	20
Towards Data Persistency for Fault-tolerance Using MPI Semantics Jose Gracia, Muhammad Wahaj Sethi, Nico Struckmann, and Rainer Keller	26
QoS versus QoE for Database Tuning Malgorzata Pankowska and Jaroslaw Kurpanik	30
Integrated Tool Support in the Context of Security and Network Management Convergence Felix von Eye, David Schmitz, and Wolfgang Hommel	36
Design and Implementation of a Scalable SDN-OF Controller Cluster Min Luo, Quancai Li, Bo Man, Ke Lin, Xiaorong Wu, Chenji Li, Shen Lu, and Wu Chou	43
Management Information Systems in Health Sector: Evidence of Mandatory Use <i>Ioannis Mitropoulos</i>	51
Designing Security Policies for Complex SCADA Systems Protection Djamel Khadraoui and Christophe Feltus	54
Impact of the Entering Time on Collective Performance Christoph Niethammer, Dmitry Khabi, Huan Zhou, Vladimir Marjanovic, and Jose Gracica	60
Remote Control and Monitoring of Smart Home Facilities via Smartphone with Wi-Fly Omar Ghabar and Joan Lu	66
Adaptive Noise Reduction in Ultrasonic Images Somkait Udomhunsakul	74
Writer Identification Method using Inter and Intra-Stroke Information	80

Jungpil Shin and Zhaofeng Liu	
Habitability, Interior and Crust: A new Code for Modeling the Thermal Evolution of Planets and Moons Lena Noack, Attilio Rivoldini, and Tim Van Hoolst	84
Creation of Objects and Concordances for Knowledge Processing and Advanced Computing Claus-Peter Ruckemann	91
An Investigation into Game Based Learning Using High Level Programming Languages Ragab Ihnissi and Joan Lu	99
Combining Artificial Bee Colony and Genetic Algorithms to Enhance the GPGPU-based ANN Classifier for Identifying Students with Learning Disabilities Tung-Kuang Wu, Shian-Chang Huang, Ying-Ru Meng, Chin-Yu Hsu, and Chih-Han Tai	105
Analysis of GLCM Parameters for Textures Classification on UMD Database Images Alsadegh Mohamed and Joan Lu	111
Copyright in Multiscale Cancer Modeling Iryna Lishchuk and Marc Stauch	117
Assessing Creativity: A Test for Drawing Production using Digital Art Tools Aber Aboalgasm and Rupert Ward	123
Nonparametric Estimation of Demand Structures in Airline Revenue Management Johannes Ferdinand Jorg and Catherine Cleophas	130
Environmental Performance Evaluation of Different Glazing-Sunshade Systems Using Simulation Tools Adeeba A. Raheem, Raja R. A. Issa, Svetlana Olbina, and Ian Flood	134
Comparison of Artificial Neural Networks and Support Vector Machines for Weigh-In-Motion Based Truck Type Classification Yueren Wang, Ian Flood, and Raja R A Issa	140
Modeling Interactive Digital TV Users Behavior Samuel Basilio	146