Table of Contents

Why are Users Switching Among Different Types of Social Media? Xiongfei Cao	1
2D-dynamic Representation of DNA Sequences - Computational and Graphical Tool for Similarity Analysis in Bioinformatics Dorota Bielinska-Waz and Piotr Waz	3
A New Computational Method of Comparison of DNA Sequences Piotr Waz and Dorota Bielinska-Waz	5
Parallelization of Loops with Complicated Data Dependency and its Experiment Kyoko Iwasawa	7
Subjective Assessment of Super Resolution for Remastering on 4K TVs Hiroki Shoji and Seiichi Gohshi	9
Using Clinical Pathway Patterns for Optimizing the Layout of an Emergency Department Young Hoon Lee and Farhood Rismanchian	15
Benefits of an Integrated Hierarchical Data Structure for Automotive Demand and Capacity Management Konrad Pawlikowski, Daniel Fruhner, Katja Klingebiel, Michael Toth, and Axel Wagenitz	19
Taking Advantage of Turkish Characteristic Features to Tackle with Authorship Attribution Problems for Turkish Neslihan Sirin Saygili, Tankut Acarman, Tassadit Amghar, and Bernard Levrat	25
Microarea Selection Method Based on Service Diffusion Process for Broadband Services Motoi Iwashita, Akiya Inoue, Takeshi Kurosawa, and Ken Nishimatsu	29
Adapting LEACH Algorithm For Underwater Wireless Sensor Networks Djamel Mansouri and Malika Ioualalen	35
A Secure Messaging and File Transfer Application Sandhya Armoogum and Sanjeet Kumar Mudhoo	40
Implementing UNIQUE Integrity Constraint in Graph Databases Kornelije Rabuzin, Martina Sestak, and Mladen Konecki	46
Template Based Automatic Generation of Runsets Elena Ravve	52

Incremental Reasoning on Strongly Distributed Fuzzy Systems Elena Ravve and Zeev Volkovich	58
Modelling Behavior Patterns in Cellular Networks Elena Ravve, Zeev Volkovich, Katerina Korenblat, Valery Kirzner, and Thomas Couronne	64