## **Table of Contents**

Real Power Loss Optimization for a Hydrocarbon Industrial Plant Using Genetic Algorithm and Differential Evolution Algorithm  Muhammad Alhajri, Mohamed Darwish, and Mohammed Abido	1
Using BP Neural Network for Adapting Playout Time in Communication Networks  Sara Helmi, Niveen Mohamed Badra, and Mohamed Elkattan	7
Electricity Price Forecasting in a Smart Grid  Md Mahbubur Rahman Khan, Md Minhaz Chowdhury, and Kendall Nygard	14
A Class of Minimum-Time Synchronization Algorithms for 2D Rectangluar Arrays Based on L-Shaped Mapping Hiroshi Umeo, Takuya Yamawaki, Hiroki Uchino, and Kaori Ishida	20
APT Detection with Host-Based Intrusion Detection System and Intelligent Systems  Seong Oun Hwang	26
Memristive Implementation of Fuzzy Logic for Cognitive Computing  Martin Klimo and Ondrej Such	28
Lyapunov-based Control Theory of Closed Quantum Systems Shuang Cong and Fangfang Meng	32
Performance Evaluation of DSDV and AODV Protocols for Green Corridor Management in a Metropolitan City Sandeep Sagar Kariyappa Shivappa, Asha Hanumantharaya, and Narendra Kumar Gurumurthy	38
Neural Signal Processing and Motion Capture as a Feedback Mechanism to Improve Interceptive Human Movement  Devanka Pathak, Tin-Kai Chen, Meiyu Shi, and Hongji Yang	44