Designing and analysis of the H – Bridge Motor Driver Circuit working for Wheeled Mobile Robots Vaibhav Dahiya and Jaspreet Singh

Intelligent Control of Flexible End Effector in Atomic Force Microscopy Based Nanomanipulation Atabak Sarrafan, Seiyed Hamid Zareh and Kambiz Ghaemi Osgouie

Analysis for Packet Dropout of Brushless Direct-current motor Networked Control System *Peiguang Wang, Lei Zhao and Xiaoping Zong* 

Surface modeling of the tire tread based on two steps mapping Surface modeling of the tire tread based on two steps mapping

Sheng-Nan Zhang, Meng Wang and Lian-Qiang Niu

Comparison and Simulation of WRP, FSR, DSR, LAR and DREAM Protocols in Manet *Majid Shakeri* 

Design of a New Nonlinear Excitation Controller Combined differential geometry with PIDTheory Xiaojuan Sun and Xiaohua Feng

Fuzzy Direct Torque Control of IPMSM to Improve both Efficiency and Speed Response Hojat Mostafavi, Mojtaba Sadeghi and Payam Ghaebi Panah

Dynamic resource allocation algorithm in Parlay multi-service environment *Qin Wang, Junping Wang and Qiliang Zhu* 

Built-in Security Enhancements for the 1002 Safety Architecture Christopher Preschern, Nermin Kajtazovic and Christian Kreiner

Takagi-Sugeno Fuzzy PD Controller for a 3-DOF Stabilized Platform Said Leghmizi and Sheng Liu

Research of Intelligent Transportation System Based On The Internet of Things Frame Yuqi Wang and Hui Qi

Self-tuning PID Controller Based on Quantum Evolution Algorithm and Neural Network Zi Ye, Xiaoping Jiang and Zhenchong Wang

Give me a hand - How Users Ask a Robotic Arm for Help with Gestures Mahisorn Wongphati, Yusuke Kanai, Hirotaka Osawa and Michita Imai

Method of Manual Partition Recovery based on DOS Partition Format Ling Ma, Xiao-hua Wu, Shan Wang and Yan Chen

Formal Modeling and Verification of Autonomous System *Ming Liu* 

Intelligent Coordination Mechanism (ICM) Model for the Road Traffic Jam Management Using ANN Algorithm

## Kenedy Greyson

Improvement and implementation the methods of the ground fault signal acquisition and transfer rate at distribution system network based on uc/os-II Wang Shi Sheng and Li Chang

Towards IEEE 802.22 Based SCADA System for Future Distributed System Muhammad Bager Mollah

Wavelet-Based Adaptive Wiener Filter For SR Zhang Jie, Lv Kuan and Wang Shan

OPNET Based Study on the Effects of both FACH Scheduling and Bandwidth on QoS of UMTS Network Mmuhammad Baqer Mollah

A Residual Bandwidth Iteration Dynamic Allocation Algorithm in Multilink Access Network System Gen Liang and Xiaoxue Guo

The Research of Intrusion Detection Based on Mixed Clustering Algorithm *Nanyan Liu* 

Primary Frequency and AGC Optimization of An Ultra-Supercritical Coal Fired Units *Junlong Tan* 

An Automatic Catalogue on E-commerce *Qianping Wei and Wendi Niu* 

A Fast Intrusion Detection A Fast Intrusion Detection Algorithm Based on SVDD Ying Yan, Yan Wang and Jiuding Duan

The Zero Line Current Transformer in Smart Meter Shouchao Feng

Low Cost Intelligent Arm Actuator Using Pneumatic Artificial Muscle with Biofeedback control Salman Afghani, Yasir Raza and Bilal Haider

The Research on Dynamical Generation of User Interface under Cloud Computing Environment XiaoDong Qi, QingYi Hua, YaMing Li and HongAn Pan

Current-Mode Multifunction Biquad Filter Using a Single MCCCDTA Montree Kumngern

Mixed-Mode Universal Filter Using OTAs Montree Kumngern

Voltage-Mode OTA-C Multifunction Biquadratic Filter with Four Inputs and Four Outputs Montree Kumngern and Somyot Junnapiya Voltage-Mode Universal Biquadratic Filter with Single-Input Multiple-Output Using OTAs Montree Kumngern and Somyot Junnapiya

Balancing control of bicycle robot Anan Suebsomran

Study on Multi-Channel Deterministic Access for Wireless Mesh LAN Bih-Hwang Lee and Hung-Chi Chien

Study on Superframe Adjustment for Cluster Tree in Wireless Sensor Networks Bih-Hwang Lee, M. Udin Harun Al Rasyid and Huai-Kuei Wu

Cooperative Mobility Management in Wireless Cellular Networks Faezeh Sadat Mozneb and Ali Broumandnia

Multipath Cooperative Mobility Management in Wireless Cellular Networks Faezeh Sadat Mozneb and Ali Broumandnia

Stepping robotic system based on cellular grid map Chong Yu and Xiong Chen

Image Reconstruction Algorithms for Radio Tomographic Imaging Heng Liu, Zheng-huan Wang, Xiang-yuan Bu and Jian-ping An

An Intelligent vehicle Geo-Localization based on GPS, vision and 3D virtual model Maya dawood, Cindy Cappelle, Maan E. El Najjar, Mohamad khalil and Denis Pomorski

On a sampling-criterion induced oscillatory behaviour *Manuel De la Sen* 

Analysis on the Equity of China's Rural Minimum Living Security System Yin Jun and Huang Rong

Demand's Effect on Transmission Cost for Electricity Markets Babak Shabani Dehboneh and Javad Nikoukar

A Current-Mode Four-Phase Third-Order Quadrature Oscillator Using a MCCCFTA Montree Kumngern

Remote Agent Based Automated Framework for Threat Modelling, Vulnerability Testing of SOA Solutions and Web Services.

Prithviraj Patil

An RBF Neural Network-Based Nonsingular Terminal Sliding Mode Controller for Robot Manipulator Tingzhe Jia and Gewen Kang

Heterogeneous Configuration of Bloom Filter for Network Forensic Analysis Muhammad Shafeeq Shujath and Shatrunjay Rawat Test Effectiveness Index: Integrating Product Metrics with Process Metrics Yan Zhang, Xuying Zhao, Xiaokun Zhang and Tian Zhang

Workload Prediction of Wireless Sensor Network based on Linear Prediction Lue Ik Hong, Wong Kiing Ing and Barsoum Nader Nassif

A Fuzzy Approach for Evaluating the Performance of Supply Chain based on Internet of Things Santoso Wibowo

Review of Smart Grid for Distribution System with Distributed Generation Nattachote Rugthaicharoencheep and Manat Boonthienthong

A Small-Size Handshake Robot System for a Generation of Handshake Approaching Motion *Mitsuru Jindai, Shunsuke Ota, Hitoshi Yamauchi and Tomio Watanabe* 

Artificial Neural Network Versus Linear Regression for Predicting Grid-Connected Photovoltaic System Output

Shahril Irwan Sulaiman, Titik Khawa Abdul Rahman, Ismail Musirin and Sulaiman Shaari

Bandwidth Enhanced E- Shaped Microstrip Antenna with Pair of Wide Slits Amitesh Raikwar, Abhishek Choubey and Ruchi Dubey

An Incremental Semi Rule-based Learning Model for Cybersecurity in Cyberinfrastructures *Keivan Kianmehr* 

Next Generation Computing through Cloud Computing Technology Muhammad Bager Mollah

Cyber Physical System for Vehicle Application Kazunari Nawa, Naiwala Chandrasiri, Tadashi Yanagihara, Tatsuya Komori and Kentaro Oguchi

A Group Decision Model for Evaluating and Selecting Intelligent Building Systems under Uncertainty Santoso Wibowo and Hepu Deng

Collective Control of Networked Microgrids with High Penetration of Variable Resources Rush Robinett III, David Wilson and Steven Goldsmith

Voltage and Frequency Regulation Strategies in Isolated AC Micro-Grids
Oleg Wasynczuk, Lee Rashkin, Steven Pekarek, Robert Swanson, Benjamin Loop, Ning Wu, Steven Glover
and Jason Neely

Decentralized Waypoint-based Multi-robot Coordination *Nicolas Jouandeau and Zhi Yan* 

Optimal Power and Energy Management for Microgrids Tu Nguyen and Mariesa Crow Dynamics and Motion Control of an Underactuated Two-Wheeled Mobile Robot Bingtuan Gao, Xiaohua Zhang, Wenhao Yao, Yuanbo Guo, Yuqing Bao and Jiehua Xie

Stabilization of an Underactuated 2-Dimensional TORA Using Passivity-Based Controllers Bingtuan Gao, Junyuan Li, Yuqing Bao and Jiehua Xie

Telemedicine for Insulin Detection Based on Microfluidic System *Ping Yao, Bin Liu, Zaili Dong and Steve Tung* 

A Combination Wind Power Forecasting Model Based on Cross Entropy Tang Yi, Sha Qian, Chen Ning and Zhu Lingzhi

XFEM-based Adaptive Contact Model for Medical Teleoperation with Time Delay Keita Ono, Gerhard Schillhuber and Heinz Ulbrich

Moving Geographic Routing to Practice Wei Zha and Wee Keong Ng

Both-hand Gesture Recognition Based on KOMSM with Volume Subspaces for Robot Teleoperation Martin Peris and Kazuhiro Fukui

Ada-MAC: An Adaptive MAC Protocol for Real-time and Reliable Health Monitoring Feng Xia, Linqiang Wang, Daqiang Zhang, Xue Zhang, Ruixia Gao and Lin Yao

An Analysis of Harmonics from LED Lamps Sohel Uddin, Hussain Shareef, Azah Mohamed and M A Hannan

The Intelligent Container as a Part of the Internet of Things
Patrick Dittmer, Marius Veigt, Bernd Scholz-Reiter, Nils Heidmann and Steffen Paul

Automated Calibration Data Collection in LRF/Camera Calibration with Online Feedback Sukhum Sattaratnamai,, Nattee Niparnan and Attawith Sudsang

A Novel Framework of Self-Adaptive Fault-Tolerant Mechanism for Pervasive Computing Environments *Haibin Cai* 

An Energy-Efficient and Load-Balanced Dynamic Clustering Protocol for Ad-Hoc Sensor Networks Feng Xia, Xuhai Zhao, Haifeng Liu, Jing Li and Xiangjie Kong

Adaptive Hybrid Position/Force Control for Grinding Applications Masoud Fazeli and Mohammad Jafar Sadigh

Optimum length-width ratio for a quadruped with efficient creeping gait Jing Xu

Real-time Event Extraction for Driving Information from Social Sensors

Takeshi Sakaki, Yutaka Matsuo, Tadashi Yanagihara, Naiwala P. Chandrasiri and Kazunari Nawa

An Analytical Approach to Investigate Arm Free Standing of A Paraplegic Subject While Using a New HKAFO Orthosis

Pouya Amiri, Mohammad Jafar Sadigh, Mohammad Taghi Karimi and Amir Esrafilian

A Generalized Control Method for a Tilt-rotor UAV Stabilization Arindam Bhanja Chowdhury, Anil Kulhare and Gaurav Raina

A New Exploration Method Based on Multi-Layer Evidence Grid Map (MLEGM) and Improved A\* Algorithm for Mobile Robots

Edriss Esmaeili, Vahid Azizi, Ahmad Karambakhsh and Mohammad reza Meybodi

A Novel Sensor-less Method of MPPT for Wind Power Conversion Systems Nima Niassati, Meisam Mohseni and Ebrahim Afjei

Improvement of Output Voltage and Input Current for a Matrix Converter Using Genetic Algorithm Saeed Tajik, Nima Niassati, Mohammadreza Bagher and Ebrahim Afjei

A Novel Switching Method in Producing Two-Phase Output from Single-phase Input Mohammad Esmaeili, Nima Niassati, Armin Salimi and Ebarhim Afjei

Multi-objective Optimization for Environmental/Economic Microgrid Scheduling Alessandra Parisio and Luigi Glielmo

Secure Scalable Microgrid Test Bed

Steven Glover, Jason Neely, Anthony Lentine, Jason Finn, Forest White, Peter Foster, Oleg Wasynczuk, Steven Pekarek and Benjamin Loop

Wind Turbine Emulation for Intelligent Microgrid Development

Jason Neely, Steven Glover, Jason Finn, Forest White, Oleg Wasynczuk and Benjamin Loop

Exploring Game Design for Cyber Security Training

Ajay Nagarajan, Jan Allbeck, Arun Sood and Terry Janssen

A 3D Imaging sensor for mobile manipulation Jing Xu

Internet Traffic Classification based on Associative Classifiers Long Li and Keivan Kianmehr

Fault-tolerant Optimal Routing of Trust Nodes in Smart Grid Communications *Yichi Zhang, Weiqing Sun and Lingfeng Wang* 

Design of the LeHab robot for passive exercise in neurological patients Mahesak Rajakornkij, Thunyanoot Prasertsakul and Warakorn Charoensuk

A New Structure for Switch Reluctance Generator with High Output Voltage Ghasem Rezazadeh, Nima Niassati, Amin Hajihosseinlu and Ebrahim Afjei

Disturbance Observer Based Current Controller for a Brushed DC Motor A.M. Harsha S. Abeykoon and Hasala R. Senevirathne

Stabilization of Moved Objects for Tele-Operated Robots Wilhelm August and Heinz Woern

A Hybrid Localization Approach in Wireless Sensor Networks using a Mobile Beacon and Inter-node Communication

Mojtaba Farmani, Hadi Moradi and Masoud Asadpour

Short Circuit Current Analysis for Different Types of Wind Turbines

Amir Mohammad Sadati, Hossein Kazemi Karegar and Peyman Saadat

Performance Evaluation of ZigBee-Based Sensor Networks Using Empirical Measurements Jin-Shyan Lee, Yuan-Ming Wang and Chung-Chou Shen

Design of a Wearable Electrocardiogram Sensor for Healthcare Monitoring Kiing-Ing Wong

Automation of Temperature System for Formed Meat Products: A Simulation Approach *Ikenna Ivenso and Uchechukwu Wejinya*