

2010 International Conference on Industrial and Information Systems

(ICIIS 2010)

**Mangalore, India
29 July – 1 August 2010**



**IEEE Catalog Number: CFP1058A-PRT
ISBN: 978-1-4244-6651-1**

2_Advisory_pp_i_ii.pdf;	International advisory committee;	pages i-ii
3_Committee_pp_iii_iv.pdf;	Conference organising committee;	pages iii-iv
4_Reviewe_pp_v_xi.pdf;	International review committee;	pages v-xi
5_Content_pp_xii_xxix.pdf;	Information on all files in the CD	pages xii-xxix

Communication and Information Engineering (CIE)

Mobile and Wireless Communication

Performance of Layered CDMA Wireless Sensor Network with Correlated Interferers in Shadowed Environment;

Uma Datta (Central Mechanical Engineering Research Institute, IN); Chinmoy Kundu (Central Mechanical Engineering Research Institute, IN); Sumit Kundu (N.I.T Durgapur, IN);

pp 1-6.

Hierarchically Adaptive Distributed Fault Diagnosis in Mobile Ad hoc Networks Using Clustering;

Nishi Yadav (NIT Rourkela, IN); Pabitra Khilar (NIT Rourkela, IN);

pp 7-12.

Performance Analysis of Distributed Intermittent Fault Diagnosis in Wireless Sensor Networks using Clustering;

Neelam Banerjee (NIT Rourkela, orissa, IN); Pabitra Khilar (NIT Rourkela, IN);

pp 13-18.

Optimal Transmit Power in Wireless Sensor Networks Using MRC Space Diversity in Rayleigh Fading Channel;

Arnab Nandi (National Institute of Technology, Durgapur, IN); Sumit Kundu (National Institute of Technology, Durgapur, IN);

pp 19-24.

A Wideband RF Frontend Architecture for Software Defined Radio;

Abhinav Kumar Tyagi (IIT Kharagpur, IN); Ratnam V RajaKumar (Indian Institute of Technology Kharagpur, IN);

pp 25-30.

Towards Energy Efficient Protocols For Wireless Body Area Networks;
Shajahan Kutty, Laxminarain J. A. (Goa College of Engineering Goa, IN);
pp 31-34.

Energy Level Performance of Multihop Wireless Sensor Network with Correlated Interferers.;
Uma Datta (Central Mechanical Engineering Research Institute, IN); Pradyumna Kumar Sahu (Central Mechanical Engineering Research Institute, IN); Chinmoy Kundu (Central Mechanical Engineering Research Institute, IN); Sumit Kundu (N.I.T Durgapur, IN);
pp 35-40.

Optical and Photonic Communication

Solving large problem instances of the RWA problem using Genetic Algorithms;
Ravi Sankar Barpanda (National Institute of Technology Rourkela, IN); Ashok Turuk (National Institute of Technology, Rourkela, IN); Bibhudatta Sahoo (National Institute of Technology Rourkela, IN); Banshidhar Majhi (National Institute of Technology Rourkela, IN);
pp 41-46.

Analysis of Multimode Plastic Optical Fiber as a Cost Effective Transmission Medium;
Prabodini Semasinghe (University of Peradeniya, LK); Damindra S Bandara (Univeristy of Peradeniya, LK); Chathuriaka Dharmagunawardhane (Univeristy of Peradeniya, LK); Nishshanka Bandara Narampanawe (University of Peradeniya Srilanka, LK); Nimal Ekanayake (University of Peradeniya, LK);
pp 47-50.

Refractive index of drifting ionized plasma with variable electron collision frequency in the Earth's upper atmosphere;
S. P. Karia, K. N. Pathak (S. V. NIT Surat, IN);
pp 51-55.

Comparative Study of Spectral Response of Etched Single Mode Fiber With Acoustic Wave Input And High-Birefringe Fiber Loop Mirror Sensor;
V. Mishra, A. Mandloi, B. N. Patil (S V NIT Surat, IN);
pp 56-59.

Electromagnetics, Wave Propagation, Antennas

Design of broadband patch antennas using genetic algorithm optimization;
Jeevani Jayasinghe (University of Peradeniya, LK); Disala Uduwawala (Senior Lecturer, LK);
pp 60-65.

A Study on the Effect of a Wall in an Indoor Communication Link;
Saumya Adhikari, Shankar D. (PES Institute of Technology, Bangalore, IN);
pp 66-68.

Neural Network Architectures for Time-Varying Direction-of-Arrival Estimation;
Koshy George (PES Institute of Technology, IN); Kiran S Sajjanshetty (PES Centre for Intelligent Systems, IN);
pp 69-74.

A Stacked Ring-Patch Artificial Substrate for Surface Waves Suppression and in Phase Reflection;
Sujatha Guddu (Indian Institute of Science, IN), K. D. Vijoy (Indian Institute of Science, IN);
pp 75-79.

Communication Networks, Protocols and Services

Routing Misbehavior Detection and Reaction in MANETs;
K Reddy Ganesh (NIT Rourkela, IN); Pabitra Khilar (NIT Rourkela, IS);
pp 80-85.

Optimal Network Selection Algorithm for Heterogeneous Wireless Networks;
Sulata Mitra (Bengal Engineering and Science University, India, IN);
pp 86-91.

Transmission Rate Prediction for Cognitive Radio Using Adaptive Neural Fuzzy Inference System;
Shrishailayya M Hiremath (NIT Rourkela, IN); Sarat Kumar Patra (National Institute of Technology, Rourkela, IN);
pp 92-97.

Stability based Route Repairing Algorithm for Ad Hoc On- Demand Distance Vector Routing. ;
Saleem Sheik Aalam, T. Arul Doss, Albert Victorie (Anna University Coimbatore, IN);
pp 98-101.

A Heuristic for QoS Based Independent Task Scheduling in Grid Environment;
Sameer Singh Chauhan (Indian Institute of Technology Roorkee, IN); Joshi (Indian Institute of Technology, Roorkee, IN);
pp 102-106.

Modulation Techniques, Channel Coding

A PSO based Functional link Artificial Neural Network training Algorithm for Equalization of Digital Communication Channels;
Sandhya Yogi (NIT rourkela, IN); Konidala Subhashini (National Institute Of Technology, IN); Jitendriya Satapathy (NIT rourkela, IN);
pp 107-112.

Performance Analysis of Pilot Aided Channel Estimation Methods for LTE System in Time-Selective Channels;
Rajeswari Kaleeswaran (Thiagarajar College of Engineering, IN); Sangeetha Tharmar (Student, IN);
pp 113-118.

Synthesis of BCH Codes for Enhancing Data Integrity in Flash Memories;
Rajesh Shetty K (NITK, IN); Sripati U (NITK, IN); Kumar Prashantha H (NITK Surathkal, IN); Shankarananda B (MITE, IN);
pp 119-124.

On the Reception of a Moving Signal Despite Moving Interferences;
Koshy George (PES Institute of Technology, IN); Kiran S Sajjanshetty (PES Centre for Intelligent Systems, IN);
pp 125-130.

Simulation and Experimental Study on Spectral Spikes in PSK Spectrums and their Reduction Technique;
Jolie R (ISRO Satellite Centre, Bangalore, IN); Dhoolipala Ramana (ISRO Satellite Centre, Bangalore, IN);
pp 131-134.

An improved Turbo Decoding Scheme for Impulsive Channel;
Savitha H. M. (St. Joseph Engineering College, IN); Muralidhar Kulkarni (National Institute of Technology Karnataka, IN);
pp 135-139.

Soft Decision Decoding of Davydov-Tombak Codes Using a Parity Check Tree;
Prashantha Kumar H., Sripati U., Rajesh Shetty K. (National Institute of Technology Surathkal, IN), B.

Shankaranada (Mangalore Institute of Technology & Engineering, Moodabidri, IN);
pp 140-144.

Seamless Mobility Management and QoS Support for Multihomed Mobile Node in Heterogeneous Wireless Networks;
Sulata Mitra (Bengal Engineering and Science University, India, IN);
pp 145-150.

Performance Evaluation of Genetic Algorithm Assisted synchronous Direct Sequence CDMA Systems;
Prasanta Kumar Pradhan (National Institute of Technology,Rourkela,India, IN);Sarat Kumar Patra (National Institute of Technology, Rourkela, IN);
pp 151-154.

BER performance of SVD-based Transmit Beamforming with Various Modulation Techniques;
Muthu Palanivel Chidambara Nathan (National Institute of Technology, IN); M Raja (National Institute of Technology Trichirappalli, IN);
pp 155-160.

A Generalized Closed Form Relation for BER of QPSK/M-QAM Over Fading Channel;
Sanjay Singh (Manipal Institute of Technology, IN); M. Sathish Kumar (Manipal Institute of Technology, IN); Mruthyunjaya H.S (Manipal Institute of Technology, IN);
pp 161-165.

Information Security

MixColumn/InvMixColumn Decomposition and Resource sharing in AES;
Nalini C Iyer, Deepa (DVBCET Hugli, IN), Anad Mohan P. V. (ECIL Bangalore, IN), Poornaiah D. V. (ITI Bangalore, IN);
pp 166-171.

Securing Location Privacy in Augmented Reality;
Anoop Aryan (Manipal University, IN); Sanjay Singh (Manipal Institute of Technology, IN);
pp 172-176.

Chaos based Spatial Domain Steganography using MSB;
Narayanappa Sathisha (R.L.Jalppa Institute of Technology, IN); Madhusudan (Student, IN);
pp 177-182.

Information Technology

Prioritization of Delay Intolerant Secure Web Traffic in WiMAX;

Amitkeerti Lagare (IIIT-Bangalore, IN); Debabrata Das (International Institute of Information Technology - Bangalore, IN);

pp 183-188.

Optimized Chat Server Protocol for Server Side Scripting Languages;

Dhanushka Krishnajith (University of Peradeniya, LK); Isuru Devinda (University of Peradeniya, LK); Roshan G. Ragel (University of Peradeniya, LK);

pp 189-194.

An Architectural Framework for Web Information Retrieval based on User's Navigational Pattern;

Rohit Agrawal (GLA ITM, Mathura, IN), K. V. Arya (ABV- Indian Institute of Information Technology & Management, Gwalior, IN), Shashi Shekar (GLA ITM, Mathura, IN);

pp 195-200.

A Review of Quality of Service (QoS) Driven Dynamic Web Service Selection Techniques;

Demian Antony D'Mello, Ananthanarayana V.S. (National Institute of Technology Surathkal, IN);

pp 201-206.

A Comprehensive Survey of Grid Computing Mechanism in J2ME for Effective Mobile Computing Techniques;

Ashutosh Kumar Dubey (NIIST Bhopal, IN); Shishir K. Shandilya (Institute of Engineering & Technology, IN);

pp 207-212.

Electronics, Instrumentation and Computer Systems (EICS)

VLSI Design

Implementation of Re-configurable Open Core Protocol Compliant Memory System using VHDL;

Ramesh Bhakthavatchalu (Amrita Vishwa Vidyapeetham, IN); Deepthy G R (Amrita Vishwavidya Peeth, IN); Shanooja S (Amrita Vishwa Vidyapeetham, IN);

pp 213-218.

Low Power, High Precision and Reduced Size CMOS Comparator for High Speed ADC Design;

Amlan Nag (NIT Silchar, IN); Krishna Baishnab (National Institute of Technology, Silchar Assam, IN); Fazal A Talukdar (National Institute of Technology Silchar, IN);

pp 219-223.

Digital Circuit Placement in FPGA based on Efficient Particle Swarm Optimization Techniques;

Prakash Rout (National Institute of Technology, Rourkela, IN); Debiprasad Acharya (National Institute of Technology, Rourkela, IN); Ganapati Panda (National Institute of Technology, Rourkela, IN);

pp 224-227.

Performance Enhancement in High Speed On-Chip Interconnect Lines;

Soorya K (NITK, IN); M S Bhat (National Institute of Technology Karnataka, Surathkal, IN);

pp 228-233.

Performance Analysis and Design of Wideband CMOS Voltage Controlled Ring Oscillator;

Jayanta Panigrahi (National Institute of Technology, Rourkela, IN); Debiprasad Acharya (National Institute of Technology, Rourkela, IN);

pp 234-238.

A Comparison of Pipelined Parallel and Iterative CORDIC Design on FPGA;

Ramesh Bhakthavatchalu (Amrita Vishwa Vidyapeetham, IN); Parvathi Nair (Amrita Vishwa Vidyapeetham, IN); Jismi (Amrita Vishwa Vidyapeetham, IN); Sinith M S (Amrita Vishwa Vidyapeetham, IN);

pp 239-243.

A Simple Mean Clock Skew Estimation Algorithm for Clock Distribution Networks in Presence of Random Process Variations and Nonuniform Substrate Temperature;

Vijitha R Herath (University of Peradeniya, LK); Reinhold Noé (University of Paderborn, DE);

pp 244-248.

A High Performance On-Chip Segmented Bus Architecture using Dynamic Bridge-by-pass technique;

Hema Chitra (PSG College of Technology, IN); A. Kandaswamy (PSG College of Technology, IN);

pp 249-254.

Estimation of Interconnect Metrics using State Space Approach;
Soorya K (NITK, IN); Pramod M (NITK, IN); M S Bhat (National Institute of Technology Karnataka, Surathkal, IN);
pp 255-260.

Software Engineering

An Empirical Approach for Software Fault Prediction;
Arashdeep Kaur (Amity University, IN); Amanpreet Brar (Asst. Prof., IN); Parvinder Singh Sandhu (Guru nanak Dev Engineering College, Ludhiana, India, IN);
pp 261-265.

An Efficient Heap Management Technique with Minimum Fragmentation and Auto Compaction;
Krishna Baishnab (National institute of Technology, Silchar Assam, IN); Soumyabrata Dev (NIT Silchar India, IN); Ziaul Choudhury (NIT Silchar India, IN); Amlan Nag (NIT Silchar, IN);
pp 266-270.

Embedded and Real-time Systems

Inter-Embedded System Communication Protocol;
Farlin Mohideen (University of Moratuwa, LK);
pp 271-274.

RTOS for PIC18 Microcontrollers;
Farlin Mohideen (University of Moratuwa, LK);
pp 275-280.

Exact Schedulability Analysis of Global Multi-Processor IUF Scheduling using Symbolic Model Checking;
Alok Lele (Manipal University, IN); Ajith Kumar (Manipal University, IN); Rohith H.M. (Manipal University, IN); Sanjay Singh (Manipal Institute of Technology, IN);
pp 281-285.

Flexible FPGA Based Embedded System for Remote Power Quality Analysis and Impulse Recording;
Farlin Mohideen (University of Moratuwa, LK);
pp 286-291.

Signal Processing

Enhancement of Color Images by Scaling Hirschman Optimal Transform Coefficients;
Punnam chandar Kothapelli (University college of Engineering, KU, IN); Tirumala Satyasavitri (JNTU, Hyderabad, IN); Narasimha Badri (Lecturer, IN); E Hari Krishna (Assistant Professor, University College of Engineering (K. U.), IN);
pp 292-296.

Image Resolution Improvement: A Signal Processing Approach;
Shilpashree P. S. (VTU, IN); Suresh Kaggere (Siddaganga Institute of Technology, Tumkur, IN);
pp 297-302.

Significant Improvement in the Closed Set Text-Independent Speaker Identification Using Features Extracted from Nyquist Filter Bank;
Nirmalya Sen (Centre for Educational Technology, Indian Institute of Technology, Kharagpur, IN), T. K. Basu (Centre for Educational Technology, Indian Institute of Technology, Kharagpur, IN), Hemant A. Patil (DA-IICT, Gandhinagar, IN);
pp 303-308.

Improved Tolerance based Selective Arithmetic Mean Filter for Detection and Removal of Impulse Noise;
Deivalakshmi S (National Institute of Technology, IN); Palanisamy P (National Institute of Technology, Tiruchirappalli-15, IN);
pp 309-313.

Designing the Inverse of an LPTV System Using H-infinity Optimization;
Siddhartha Sankar Bora (National Institute of Technology, Warangal, IN); Ravindra Dhuli (Indian Institute of Technology, IN); Brejesh Lall (Assistant Professor, IN);
pp 314-318.

Computer Architecture

Recent Trends in Software and Hardware for GPGPU Computing: A Comprehensive Survey;
Bayyapu Neelima (National Institute of Technology-karnataka Surathkal, IN); Prakash Raghavendra (National Institute of Technology Karnataka Surathkal, IN);
pp 319-324.

Optimization of an Application Specific Instruction Set Processor using Application Description Language;

Vicky Dodani (National Institute of Technology Rourkela, IN); Nikhil Kumar (National Institute of Technology Rourkela, IN); Umakanta Nanda (National Institute of Technology Rourkela, IN); Kamala Kanta Mahapatra (National Institute of Technology, IN);

pp 325-328.

Electronic Instrumentation

Signal Conditioner for MEMS based Piezoresistive sensor;

Philip C. John (VIT University, Vellore, IN), Abhay Joshi (University of Pune, IN), Pramod Sindhankeri, Ajaya Kumar P. D., K. Natrajan (BEL, Bangalore, IN);

pp 329-333.

Least Square based Parabolic Regression to Determine Calibration Constant in Measurement;

P. Mallick, C. Naik, T. B. Behera (DRDO Chandipur, IN);

pp 334-338.

Biomedical Electronics

Reconstruction of Brain Electrical Impedance Tomography Images Using Particle Swarm Optimization;

Pravin Kumar (SSN College of Engineering, IN); Prabhu Gurumahantappa Benakop (Aurora's Engg College, Bhongir, IN); Jinaga Bc (Jawaharlal Nehru Technological University, IN); Natarajan Sriraam (SSN College of Engineering, IN);

pp 339-342.

A Novel Device to Monitor Mobilization of Fingers During Treatment for Stiffness of Tendons;

Venkatesh Prasad (NITK, Surathkal, IN); Amith Kamath (NITK, Surathkal, IN); Jora Gonda (NITK, Surathkal, IN); Jagannath Kamath (Kasturba Medical College, Mangalore, IN);

pp 343-347.

Complex wavelet based Texture features of Cancer cytology Images;

Issac Niwas S (National Institute of Technology, IN); Palanisamy P (National Institute of Technology, Tiruchirappalli-15, IN); Sujathan K (Regional Cancer Centre, Thiruvananthapuram, IN);

pp 348-353.

Soft Computing

A supporting tool for efficient city traffic planning A genetic algorithm based approach;
*Hiruna Dissanayake (University of Moratuwa, LK); Ravindra Koggalage (Mobile Communications
Research Lab, University of Moratuwa, LK);*
pp 354-359.

Support Vector Regression Based Simultaneous Identification of Multiple NARMA
Plants;
*Koshy George (PES Institute of Technology, IN); Prashanth Harshangi (PES Centre for Intelligent Systems,
IN); Jayesh Bhat (PES Centre for Intelligent Systems, IN);*
pp 360-365.

FPGA Implementation of Fuzzy Logic Elevator Group Controller With Traffic Based
System;
Rajesh Kumar Pathjoshi, Kamalakanta Mahopatra (NIT Rourkela, IN);
pp 366-371.

Neural Network Model For Software Size Estimation Using Use Case Point Approach;
*S. Ajitha, T. V. Suresh Kumar, D. Evangelin Geetha, K. Rajnikanth (M S Ramaiha Institute of Technology,
Bangalore, IN);*
pp 372-376.

Power Electronics

A Cost-Effective System for Wireless Power Transmission;
*Prashant Malani (National Institute of Technology Karnataka, Surathkal, IN); Arjun Yadiki (National
Institute of Technology Karnataka, Surathkal, IN); U. Sripati (NIT Surathkal, IN);*
pp 377-381.

Multiple Output SMPS with Improved Input Power Quality;
*Shikha Singh (Indian Institute of Technology, IN); G. Bhuvaneshwari (Indian Institute of Technology, IN);
Bhim Singh (IIT Delhi, IN);*
pp 382-387.

Voltage Regulator Module Design Considerations to Enhance Efficiency;
*Harish U (National Institute of Technology Karnataka, IN); Sumam David (National Institute of
Technology Karnataka, IN);*
pp 388-392.

PFC Cuk Converter Based Electronic Ballast for an 18 W Compact Fluorescent Lamp;

Ashish Shrivastava (IIT Delhi, New Delhi, IN); Bhim Singh (IIT Delhi, IN);
pp 393-397.

FPGA Based Control Model with Derivative Filter for Converter;
Sreenivasappa Veeranna (National Institute of Technology Karnataka, IN); Udaykumar Yaragatti
(National Institute of Technology Karnataka, IN); Abdul Rahiman Beig (The Petroleum Institute, Abu
Dhabi, AE);
pp 398-403.

Pattern Recognition

Rotation Invariant Object Recognition using Gabor Filters;
Siddhaling Urolagin (Manipal Institute of Technology, IN); Prema K V (Manipal University, IN); N. V.
Subba Reddy (Manipal Institute of Technology, IN);
pp 404-407.

Automatic Recognition of Facial Expressions in Image Sequences: A Review;
Rajesh Patil (MNIT Jaipur, IN); Vineet Sahula (Malaviya National Institute of Technology Jaipur, IN);
Atanendu Mandal (CEERI Pilani, IN);
pp 408-413.

A Gabor Filters based method for Segmenting Inflected Characters of Kannada Script;
Siddhaling Urolagin (Manipal Institute of Technology, IN); Prema K V (Manipal University, IN); N. V.
Subba Reddy (Manipal Institute of Technology, IN);
pp 414-419.

Zone-based Structural feature extraction for Script Identification from Indian Documents;
Rajesh Gopakumar (Manipal University, Manipal, IN); N. V. Subba Reddy (Manipal Institute of
Technology, IN); Krishnamoorthi Makkithaya (Manipal University, IN); U Dinesh Acharya (Manipal
University, IN);
pp 420-425.

Real Time Object Tracking Based on Segmentation and Kernel Based Method;
Debarati Chakraborty (National Institute of Technology Rourkela, IN); Dipti Patra (National Institute of
Technology, Rourkela, IN);
pp 426-429.

A Framework for Whole-Body Gesture Recognition from Video Feeds;
Arulsodhy Thusyanthan; Nihanth Joseph; Kuganesan Srijeyanthan ;Sithivinayagam Kokulakumaran

(University of Moratuwa, LK); Chulaka Gunasekara (University of Moratuwa, Sri Lanka, LK); Chandana D Gamage (University of Moratuwa, LK);
pp 430-435.

Induction Motor Stator Inter-Turn Fault Detection Using Wavelet Transform Technique;
Rudra N Dash, Vidyadhar Subudhi, Susmita Dash (NIT Rourkela, IN);
pp 436-441.

Contribution-Based Clustering Algorithm for Content-Based Image Retrieval;
Harikrishna Narasimhan (College of Engineering, Anna University, Chennai, IN);Purushothaman Ramraj (Anna University, IN);
pp 442-447.

Gender Classification Using Radon and Wavelet Transforms;
Preeti Raj, Preeti Khanna (PDPM Indian Institute Information Technology, Jabalpur, IN);
pp 448-451.

Measurement of the correlation in a Multidimensional Feature Space;
Nirmalya Sen (Centre for Educational Technology, Indian Institute of Technology, Kharagpur, IN);
pp 452-457.

Power Systems, Energy and High Voltage Engineering (PSEHV)

Power Systems

An XML Data Representation Model for Power System Reliability Assessment;
Anbalagan (Anna University, IN); Malarvizhi (Anna University, Trichy, IN);
pp 458-462.

Enhancing energy efficiency of auxiliary power system in a 210 MW coal fired power plant through energy efficiency;
Rajashekar Mandi (Central Power Research Institute, Bangalore, IN);
pp 463-468.

Evaluating the impact of Battery Energy Storage Systems Capacity on the Performance of Coordinated Control of Elements in Ubiquitous Power Networks;
K. M. Liyange, A. Yokoyama, Y. Ota, T. Nakajima, H. Taniguchi (University of Tokyo);
pp 469-474.

Clock Synchronization in Distributed systems;

Latha C A (Visvevaraya Technological University, IN); Shashidhara H L (P.E.S Institute of Technology, IN);
pp 475-480.

Effect of Autonomous Distributed Vehicle-to-Grid (V2G) on Power System Frequency Control;

Yutaka Ota, Harohito Taniguchi, Tatsuhito Nakijama, Kithsiri M. Liyanage, Koichiro Shimizu, Taisuke Masuta, Junpei Baba, Akihiko Yokoyama (The University of Tokyo, JP);
pp 481-485.

Power Quality of Renewable Isolated Power Systems - A Case study;

Manoj Kumar M. V. (Govt. College of Engineering, Kannur, IN), Rangan Banerji (Indian Institute of Technology, Bombay, IN);
pp 486-489.

Decoupled Electronic Load Controller for Asynchronous Generator in Pico-Hydro Power Generation;

Bhim Singh (IIT Delhi, IN); Veeramalla Rajagopal (Indian institute of Technology, Delhi, IN); Ambrish Chandra (Ecole de Technologie, Supérieure, CA); Kamal Al-Haddad (Ecole de technologie supérieure, CA);
pp 490-495.

Power Flow Analysis Incorporating Firing Angle Model Based TCSC;

S. Sreejith (National Institute of Technology Trichi, IN), Sishaj P. Simon(National Institute of Technology Trichi, IN), M. P. Selvan (National Institute of Technology Trichi, IN);
pp 496-501.

Comparative Evaluation of Performance of Different Control Strategies on UPQC Connected Distribution System;

S Srinath (National Institute of Technoogy, IN); Selvan M P (National Institute of Technology, Tiruchirappalli, IN); Vinothkumar K (National institute of technology, IN);
pp 502-507.

Impact of DG Model and Load Model on Placement of Multiple DGs in Distribution System;

Vinothkumar K (National institute of technology, IN); Selvan M P (National Institute of Technology, Tiruchirappalli, IN); S Srinath (National Institute of Technoogy, IN);
pp 508-513.

Application of Battery Energy Storage System (BESS) in Voltage Control and Damping of Power Oscillations;
Bhim Singh (IIT Delhi, IN); Zakir Hussain (IIT Delhi, IN);
pp 514-519.

High Voltage Engineering

Fault Ride Through operation of a DFIG wind farm connected through VSC HVDC;
Aputharajah Arulampalam (University of Peradeniya, LK); Ramtharan G (Garrad Hassan and Partners Limited, UK); Janaka Ekanayake (Cardiff University, UK); Ajith Tennakoon (Ceylon Electricity Board, LK); Sunil Abeyratne (University of Peradeniya, LK); Nick Jenkins (Cardiff University, UK);
pp 520-525.

Simulation of Potential and Electric Field for High Voltage Ceramic disc Insulators;
Subba Reddy (Indian Institute of Science, Bangalore, IN), Sultan N. A., MoniKa P. M., Pooja B., O. Salma (MSRIT, Bangalore, IN), Ravishankar K. V. (Bharat Heavy Electricals Ltd, Bangalore, IN);
pp 526-531.

Lightning Surges at Distribution Transformer Secondary;
M. A. R. M. Fernando (University of Peradeniya, LK), V. Coorey (Uppsala University, Sweden);
pp 532-537.

Performance of Medium Voltage Cable Terminations under High Frequency Voltage Waveforms;
Sarajit Banerjee (Mott Macdonald Limited Brighton, UK), Shesha H. Jayaram (University of Waterloo, Waterloo, Canada);
pp 538-543.

Long Term Acid Rain Multistress Performance of Thermoplastic and Thermoset Polymeric insulators;
Rajeswari Sundararajan (Purdue University, US);
pp 544-549.

Electrical Machines and Drives

Voltage Controlled PFC Zeta Converter Based PMBLDCM Drive for An Air-Conditioner;
Sanjeev Singh (IIT Delhi, IN); Bhim Singh (IIT Delhi, IN);
pp 550-555.

Reactive Power based MRAS Observer for Speed Sensorless Control of Double Output Induction Generator;

Monalisa Pattnaik (Indian Institute of Technology Kharagpur, IN); Kastha Debaprasad (Professor, IN);
pp 556-561.

Design of Output dv/dt Filter for Motor Drives;

Anirudh Acharya (Indian Institute of Science, IN); Vinod John (Indian Institute of Science, IN);
pp 562-567.

Rotor Position Estimation and Design of Low Cost Controller Circuit for Switched Reluctance Motor based on Machine Design Parameters;

Shaik Abdul Ahad (National Institute of Technology Karnataka, IN);
pp 568-573.

Design Analysis and Performance Characteristics of Switched Reluctance Motor;

Udaykumar R Y, Abdul Ahad Shaik (NITK Surathkal, IN), K S R Deepika (NCET Vijayawada, IN);
pp 574-579.

A 3-Leg VSC Based Integrated Voltage and Frequency Controller for a Self Excited Induction Generator Employing Water Pumping;

Raja sekhara Chilipi (Indian Institute of Technology Delhi, IN); Bhim Singh (IIT Delhi, IN); S Murthy (IIT Delhi, IN);
pp 580-585.

Renewable Energy systems

Maximum Power Point Tracking With Fuzzy Logic Approach For Grid Connected Photovoltaic System;

Venkateshwarlu Kotha (PG student, IN);
pp 586-589.

A Comparative Review on Small Scale Integration of Hybrid Fuel Cell and PV Generating System;

Sabaripandiyam (Student from National Institute of Technology, Tiruchirappalli, IN);
pp 590-595.

Electrification in rural areas of India and consideration of SHS;

Kamalapur G. D., Udaykumar R. Y. (National Institute of Technology Karnataka, Surathkal, IN);
pp 596-601.

Solar PV- Diesel Hybrid Energy System For Rural Applications;
Rajashekar Mandi (Central Power Research Institute, Bangalore, IN);
pp 602-607.

An approach to reduce the Size and cost of PV Panel in Solar Water Pumping;
Mrityunjaya Kappali, Udaykumar R. Y. (National Institute of Technology Karnataka, Surathkal, IN);
pp 608-613.

Control, Robotics and Motion Control (RMC)

Control Systems

Optimal Control of Multi-Delay Systems via Block-pulse Functions;
Murali Bosukonda (Indian Institute of Technology, Kharagpur, IN); Sanjeeb Kar (Indian Institute of Technology, Kharagpur, IN);
pp 614-619.

Mathematical model of a Takagi-Sugeno PI/PD controller;
Murali Bosukonda (Indian Institute of Technology, Kharagpur, IN); Mahender Janga (Indian Institute of Technology, Kharagpur, IN);
pp 620-625.

Robotics and Motion Control

A Robust Cooperative Multi-Robot Path-Planning in Noisy Environment;
Jayasree Chakraborty (Indian Institute of Technology, Kharagpur, IN); Sudipta Mukhopadhyay (IIT Kharagpur, IN);
pp 626-631.

Design and Implementation of Autonomous Robot with Solid Object Identification Algorithm;
Neranjana Rathnayake. (University of Peradeniya., LK); Kosala Samarasekera (University of Peradeniya., LK); Sandun Rajapakshe. (University of Peradeniya., LK); Duminda Wikramasinghe (University of Peradeniya., LK); Lakshitha Mahagedara. (University of Peradeniya, LK); Rasike Samaranayake (University of Peradeniya., LK); Nishshanka Bandara Narampanawe (University of Peradeniya Srilanka, LK);
pp 632-637.

Process Control & Automation

Design, Modeling and Simulation of Intelligent Controller for small isolated diesel generator system;

Alka Singh (ITM, IN); Bhim Singh (IIT Delhi, IN);

pp 638-643.

Mechanical and Magnetic Analysis of Magnetostrictive Disc Brake System;

K. Pramod Kumar, Ravikiran Kadoli, M. V. Anil Kumar (National Institute of Technology Karnataka, Surathkal, IN);

pp 644-649.

Integral Sliding Mode Controller for Trajectory Tracking Control of Stewart Platform Manipulator;

Dereje Shiferaw Negash, R. Mitra (IIT Roorkee, IN);

pp 650-654.