2016 International Conference on Advances in Computing, Communications and Informatics (ICACCI 2016)

Jaipur, India
21-24 September 2016

Pages 1-692

IEEE Catalog Number: CFP16CAF-POD
ISBN: 978-1-5090-2030-0

Copyright © 2016 by the Institute of Electrical and Electronics Engineers, Inc
All Rights Reserved

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

******This publication is a representation of what appears in the IEEE Digital Libraries. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number: CFP16CAF-POD
ISBN (Print-On-Demand): 978-1-5090-2030-0
ISBN (Online): 978-1-5090-2029-4

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

2016 International Conference on Advances in Computing, Communications and Informatics (ICACCI'16), Sept. 21-24, 2016, Jaipur, India

TABLE OF CONTENTS

ICACCI-01: Best Paper Session-I

A Cost-Effective Solution for Pedestrian Localization in Complex Indoor Environment

Prachi Kudeshia (The LNM Institute of Information Technology Jaipur, India), Santosh Shah (The LNM Institute of Information Technology, Jaipur India, India), Anup Bhattacharjee (The LNMIIT Jaipur, India) 1

Texture Analysis of Breast Thermogram for Differentiation of Malignant and Benign Breast

Sourav Pramanik (Jadavpur University, India), Debotosh Bhattacharjee (Jadavpur University, India), Mita Nasipuri (Jadavpur University, India) 8

Detection and Retargeting of Emphasized Text for Content Summarization

Md Ajij (National Institute of Technology Meghalaya, India), Sanjoy Pratihar (National Institute of Technology Meghalaya, India), Kanishka Ganguly (University of Maryland, USA) 15

Computational Characterization of Cerebellum Granule Neuron Responses to Auditory and Visual Inputs

Chaitanya Medini (Amrita Vishwa Vidyapeetham (Amrita University), India), Arathi Rajendran (Amrita Vishwa Vidyapeetham (Amrita University), India), Aiswarya Jijibai (Amrita Vishwa Vidyapeetham, Amrita University, India), Bipin Nair (Amrita Vishwa Vidyapeetham (Amrita University), India), Shyam Diwakar (Amrita Vishwa Vidyapeetham (Amrita University), India) 22

Modelling the Undulation Patterns of Flying Snakes

Viswesh Sujjur BalaramRaja (Amrita Vishwa Vidhyapeetham, India), Eashwra Sankrityayan S (Amrita Vishwa Vidyapeetham, India), Suraj Coimbatore Sivagurunathan (Amrita Vishwa Vidyapeetham, India), Balajee Ramakrishnananda (Amrita Vishwa Vidyapeetham & Amrita Vishwa Vidyapeetham, India), Rajesh Senthil Kumar T (Amrita Vishwa Vidhyapeetham, India) 28

Edge PSO - A Recombination Operator Based PSO Algorithm for Solving TSP

Vaisakh S (Indian Institute Of Space Science And Technology, India), Akhil P m (Indian Institute Of Space Science And Technology, India), Asharaf S (IITMK, India) 35

Conditional Adherence Based Classification of Transactions for Database Intrusion Detection and Prevention

Indu Singh (Delhi Technological University, India), Vaibhav Darbari (Delhi Technological University, India), Lakshya Kejriwal (Delhi Technological University, India), Aditya Agarwal (Delhi Technological University, India) 42

Modified Gammatone Frequency Cepstral Coefficients to Improve Spoofing Detection

Arun Das K (Amrita Vishwa Vidyapeetham, India), Kuruvachan K George (Amrita Vishwa Vidyapeetham, India), Santhosh C Kumar (Amrita Vishwa Vidyapeetham, India), Veni S (Amrita Vishwa Vidyapeetham, India), Ashish Panda (Tata Consultancy

Services, India) 50
NvCloudIDS: A Security Architecture to Detect Intrusions At Network and Virtualization Layer in Cloud Environment
Preeti Mishra (Malaviya National Institute of Technology Jaipur, India), Emmanuel Shubhakar Pilli (Malaviya National Institute of Technology, Jaipur, India), Vijay Varadharajan (Macquarie University, Australia), Udaya Tupakula (Macquarie University, Australia) 56
Energy Efficient Algorithms to Maximize Lifetime of Wireless Sensor Networks
Srikanth Jannu (Indian School of Mines, India), Prasanta Kumar Jana (Indian School of Mines, India) 63

ICACCI-09: Best Paper Session-II

ELM Based Imputation-Boosted Proactive Recommender Systems
Punam Bedi (University of Delhi, India), Richa Singh (University of Delhi, India), Sumit Agarwal (University of Delhi & University of Delhi, India), Veenu Bhasin (University of Delhi, India) 69
CBCARS: Content Boosted Context-Aware Recommendations Using Tensor Factorization
Anjali Gautam (University of Delhi, India), Parila Chaudhary (University of Delhi, India), Kunal Sindhwani (University of Delhi, India), Punam Bedi (University of Delhi, India) 75
Penalty Based Weighted Cooperative Spectrum Sensing Using Normal Factor Graph
Guman Shekhawat (The LNM Institute of Information Technology, India), Purnendu Karmakar (The LNM Institute of Information Technology, India) 82
SIMO Diversity Reception in Rayleigh and Rician Fading with Imperfect Channel Estimation
Yash Vasavada (Dhirubhai Ambani Institute of Information and Communication Technology, India), Jeffrey Reed (Virginia Tech, USA), A. A. (Louis) Beex (DSPRL - Wireless@VT & Virginia Tech, USA) 88
Power Line Interference Removal From ECG Signals Using Wavelet Transform Based Component-Retrieval
Tanushree Sharma (Malaviya National Institute of Technology, India), Kamalesh Kumar Sharma (Malaviya National Institute of Technology, Jaipur, India) 95
Automatic Program Generation for Heterogeneous Architectures
Deepika H V (C-DAC & C-DAC, India), Mangala N (C-DAC, India), Nelaturu Sarat Chandra Babu (Research & Development, C-DAC, India) 102
An Empirical Study to Assess the Effects of Refactoring on Software Maintainability
Ruchika Malhotra (Delhi Technological University, India), Anuradha Chug (Guru Gobind Singh Indraprastha University, India) 110
Entropy Based Informative Content Density Approach for Efficient Web Content Extraction
G. p. Sajeev (Amrita University & Govt Engineering College, India), Manjusha Annam (Amrita Vishwa Vidyapeetham, India) 118

ICACCI-02: Signal/Image/video/speech Processing/Computer Vision/Pattern Recognition (Regular Papers)

An Unsupervised Modified Spatial Fuzzy C-mean Method for Segmentation of Brain MR Image
Kamarujjaman Sk (Govt. College of Engineering and Ceramic Technology, India), Susanta Chakraborty (Indian Institute of Engineering Science and Technology, India), Mausumi Maitra (Govt. College of Engineering and Ceramic Technology, India) 125

On the Adaptive Motion Estimation in Video Coding Based on Video Content Analysis
Kattula Shyamala (Osmania University College of Engineering, Hyderbad & Department of CSE, India), Mallesham Dasari (Stony Brook University, USA) 132

Real-time Panorama Composition for Video Surveillance using GPU
Pritam Prakash Shete (Bhabha Atomic Research Centre, India), Dinesh Sarode (Bhabha Atomic Research Centre, India), Surojit Bose (Bhabha Atomic Research Centre, India) 137

Human Action Recognition Using RGB-D Sensor and Deep Convolutional Neural Networks
Javed Imran (IIT Roorkee, India), Praveen Kumar (Visvesvaraya National Institute of Technology, India) 144

Novel Feature Ranking Criteria for Interval Valued Feature Selection
Guru D S (University of Mysore, India), Vinay Kumar N (University of Mysore, India) 149

Supervised and Unsupervised Learning in Animal Classification
N Manohar (University of Mysore, India), Yh Sharath Kumar (MIT Mysore, India), G Hemanthkumar (University Of Mysore, India) 156

Representing Image Captions as Concept Graphs Using Semantic Information
Swarnendu Ghosh (Jadavpur University, India), Nibaran Das (Jadavpur University, India), Teresa F. Gonçalves (Universidade de Évora, Portugal), Paulo Quaresma (University of Evora, Portugal) 162

Stockwell Transform Based Face Recognition: A Robust and an Accurate Approach
B H Shekar (Mangalore University, India), Rajesh D S (Mangalore University, India) 168

Recognition of a Person in a Crowd and Occluded Face Images Based on Skin Color Segmentation
Naveena M (University of Mysore, India), G Hemanthkumar (University Of Mysore, India), P Navya (University of Mysore, India) 175

Online Discriminative Tracking with Optimal Feature Selection
Kaushik Gowda (MSRUAS, India), Lasitha Mekkayil (M. S. Ramaiah University of Applied Sciences, India), Hariharan Ramasangu (M. S. Ramaiah University of Applied Sciences, India) 180

Brain Tumor Segmentation From MR Brain Images Using Improved Fuzzy c-Means Clustering and Watershed Algorithm
Benson C C (University of Calicut, India), Deepa V (University of Calicut, India), Lajish Lajish V L (University of Calicut, India), Kumar Rajamani (Robert Bosch Engineering and Business Solutions Limited, India) 187

Content-Aware Image Retargeting with Controlled Distortion for Small Displays
Prasun Tripathi (Indian Institute of Technology, Patna, India), Rajarshi Pal (Institute for Development and Research in Banking Technology (IDRBT), Hyderabad, India) 193

Video Shot Boundary Detection Using Midrange Local Binary Pattern
Rashmi B S (Karnataka State Open University (KSOU), India), Nagendraswamy H S (University of Mysore, India) 201

Detection of Aggressive Driving Behavior and Fault Behavior Using Pattern Matching
Jessy George Smith (Cognizant Technology Solutions Limited, India), Mandar Patil (Cognizant Technology Solutions, India), Kirthi Ponnuru (Cognizant Technology Solutions, India) 207
A Scalable and Robust Framework for Intelligent Real-time Video Surveillance
Shreenath Dutt Sharma (Indian Institute of Technology (BHU), Varanasi, India), Ankita Kalra (Indian Institute of Technology (BHU), Varanasi, India) 212
Partial Differential Equation Diffusion in Complex Domain
Lanlan Li (Shanghai Bell Software Co., Ltd, Shanghai, P.R. China), Jinsong Wu (Universidad de Chile, Chile) 216

ICACCI-03: Embedded Systems/Computer Architecture and VLSI/Adaptive Systems/ICAIS'16 (Regular Papers)

Incorporating Adaptivity Using Learning in Avionics Self Adaptive Software A Case Study
Rajanikanth Kashi (Honeywell Technology Solutions Laboratories & International Institute of Information Technology, Bangalore, India), Meenakshi DSouza (IIIT-B, India), S Kumar Baghel (International Institute of Information Technology, Bangalore, India), Nitin Kulkarni (International Institute of Information Technology, Bangalore, India) 220
Area Optimization of Two-Stage Amplifier Using Modified Particle Swarm Optimization Algorithm
Smrity Ratan (IIT (BHU), Varanasi, India), Debalina Mondal (NIT Durgapur, India), Anima R (NIT Durgapur, India), Chandan Kumar (IIT (BHU), Varanasi, India), Amit Kumar (IIT (BHU), Varanasi, India), Rajib Kar (National Institute of Technology, Durgapur, India) 230
Modified 4-2 Compressor Using Improved Multiplexer for Low Power Applications
Dinesh Kumar (GGSIPU (USICT) Delhi, India), Manoj Kumar (Guru Gobind Singh Indraprastha University, New delhi, India) 236
Modeling and Control of One-Link Robotic Manipulator Using Neural Network Based PID Controller
Rajesh Kumar (Netaji Subhas Institute of Technology, New Delhi, University Of Delhi, India), Smriti Srivastava (Netaji Subhas Institute of Technology, India), Jai Ram Prasad Gupta (Netaji Subhas Institute of Technology, India) 243
An Input Test Pattern for Characterization of a Full-Adder and N-Bit Ripple Carry Adder
Manan Mewada (Ahmedabad University & School of Engineering and Applied Science, India), Mazad Zaveri (Ahmedabad University & School of Engineering and Applied Science, India) 250
GFDM/OQAM Implementation Under Rician Fading Channel
Shravan Kumar Bandari (National Institute of Technology Warangal, India), Venkata Mani Vakamulla (National Institute of Technology Warangal, India), Anastasios Drosopoulos (TEI of Western Greece, Greece) 256
Efficient Baseband Processing System for DVB-RCS to DVB-S2 Onboard Processing Satellite
Anurag Das (Indus Institute of Technology and Engineering, Indus University, India), Rajat Arora (Space Applications Centre (SAC), ISRO, India), Tvs Ram (Space Applications Centre (SAC), ISRO, India) 261

Design of Memristor-based Up-Down Counter Using Material Implication Logic
Anindita Chakraborty (Indian Institute of Engineering Science and Technology, Shibpur, India), Aparna Dhara (Indian Institute of Engineering Science and Technology, Shibpur, India), Hafizur Rahaman (Indian Institute of Engineering Science and Technology, Shibpur, India) 269
A Novel and Efficient Design of Golay Encoder for Ultra Deep Submicron Technologies
Chiranjeevi Sheelam (Vardhaman College of Engineering & Center of Advanced Research Computing Laboratory, India), Jayanthi V R Ravindra (Center for Advanced Computing Research Lab, India) 275
An Affine Combination of Two Adaptive Filters for System Identification with Variable Sparsity
Pogula Rakesh (National Institute of Technology Warangal, India), Kishore T (NIT Warangal, India) 281
Design and Simulation of Tri-band Spidron Fractal Equilateral Triangle Microstrip Antenna
Munish Kumar (USICT, India), Vandana Nath (Guru Gobind Singh Indraprastha University, India) 287
Design and Analysis of Different Types of Charge Pump Using CMOS Technology
Harshita Dadhich (GITS, India), Vijendra Maurya (Amity University, India), Kumkum Verma (Sangam University, India), Sanjay Jaiswal (Sangam University, India) 294
Biomarker Identification Using Next Generation Sequencing Data of RNA
Shib Sankar Bhowmick (Heritage Institute of Technology, India), Indrajit Saha (National Institute of Technical Teachers' Training & Research, Kolkata, India), Ujjwal Maulik (Jadavpur University, India), Debotosh Bhattacharjee (Jadavpur University, India) 299
Controlled Motion in X and Y Direction by Piezoelectric Actuation
Kiran Junagal (Rajasthan Technical University Kota Rajasthan India, India), R. s. Meena (UCE, KOTA, India) 304
Analysis of Fuzzy Rules for Robot
Sandeep BS (Amrita Vishwa Vidyapeetham, Amrita University, India), Supriya P (Amrita Vishwa Vidyapeetham, Amrita University, India) 309

ICACCI-04: Sensor Networks, MANETs and VANETs/Distributed Systems (Regular Papers)

Compute-Intensive Workflow Scheduling in Multi-Cloud Environment
Indrajeet Gupta (Indian School of Mines, India), Madhu Sudan Kumar (Indian School of Mines Dhanbad, India), Prasanta Kumar Jana (Indian School of Mines, India) 315
Performance Analysis of Two-Tier Cellular Network Using Power Control and Cooperation
Pragya Swami (ABV- Indian Institute of Information Technology and Management Gwalior, India), Mukesh Kumar Mishra (ABV-Indian Institute of Information Technolgy and Management, Gwalior, India), Aditya Trivedi (ABV-Indian Institute of Information Technology and Management Gwalior, India) 322
Energy Harvesting-Based Two-hop D2D Communication in Cellular Networks
Pooja Lakhlan (ABV-Indian Institute of Information Technology and Management, India), Aditya Trivedi (ABV-Indian Institute of Information Technology and Management Gwalior, India) 328

Interference-Fault Free Transmission Schedule in Tree-structured WSN
Beneyaz Ara Begum (Academy of Scientific and Innovative Research (AcSIR) & CSIR-Indian Institute of Chemical Technology, India), Satyanarayana V Nandury (CSIR-Indian Institute of Chemical Technology & Academy of Scientific & Innovative Research, India) 333
Measurement Results for File Transfer Using RaptorQ in a Mobile Environment
John N. Daigle (University of Mississippi, USA), Demba B Komma (University of Mississippi, USA), Feng Wang (The University of Mississippi, USA) 342
LAWI: A Load balanced Architecture for Wireless Network on chip
Priyanka Mitra (Malaviya National Institute of Technology, India) 349
Strategies to Handle Big Data for Traffic Management in Smart Cities
Satyanarayana V Nandury (CSIR-Indian Institute of Chemical Technology & Academy of Scientific & Innovative Research, India), Beneyaz Ara Begum (Academy of Scientific and Innovative Research (AcSIR) & CSIR-Indian Institute of Chemical Technology, India) 356
A High Throughput Internet Access Protocol (HTIAP) for Moving Things in Smart Cities
Arvind Kumar Shah (IIEST, Shibpur & Microsoft, India), Sohini Roy (Arizona State University, USA), Abhijit Sharma (National Institute of Technology, Durgapur, India), Uma Bhattacharya (Bengal Engineering & Science University, India) 365
Fault-Tolerant Sensor Using Model Based Simulated Value for Space Environment Simulation Applications
Kaushik S (Bangalore Institute of Technology, India), Ajay G (Bangalore Institute of Technology, India), Dhanush S (Bangalore Institute of Technology, India), Mahendra S Gowda (Bangalore Institute of Technology, India), Faizuddin Faruqui (ISRO Satellite Center, India) 372
Flow Statistics Based Load Balancing in OpenFlow
Karamjeet Kaur (AD College Dharamkot, India), Sukhveer Kaur (AD College Dharamkot, India), Vipin Gupta (U-Net Solutions, Moga, India) 378
Checkpoint Based Multi-Version Concurrency Control Mechanism for Remote Healthcare System
Ammlan Ghosh (University of Calcutta, India), Rituparna Chaki (University of Calcutta, India), Nabendu Chaki (University of Calcutta, India) 382
Tree Based Tracking Target in Wireless Sensor Network
Suman Bhowmik (College of Engineering & Management, Kolaghat, India), Sushovan Das (College of Engineering and Management, Kolaghat, India), Chandan Giri (Bengal Engineering & Science University, Shibpur, India) 390
Energy Aware Routing in WSN for Pest Detection in Coffee Plantation
Roshan Zameer Ahmed (Reva Institute of Technology and Management, India), Rajashekhar Biradar (Reva University, India) 398
Security Threats in Vehicular Ad Hoc Networks
Ahmed Shoeb Al Hasan (Bangladesh University of Engineering & Technology, Dhaka, Bangladesh), Md Shohrab Hossain (Bangladesh University of Engineering and Technology, Bangladesh), Mohammed Atiquzzaman (University of Oklahoma, USA) 404
Online Reviews: Determining the Perceived Quality of Information
Gobinath J (Amrita School of Business, Coimbatore, India, India), Deepak Gupta (Amrita School of Business & ASB, India) 412

ICACCI-05: Embedded Systems/Computer Architecture and VLSI/Adaptive Systems/ICAIS'16 (Regular Papers)

Load Forecasting in India At Distribution Transformer Considering Economic Dynamics
Kumar Padmanabh (Robert Bosch, India) 417

Comparative Studies on Design of Fractional Order Proportional Integral Differential Controller
Rosy Pradhan (Veer Surendra Sai University of Technology, Burla, India), Pratyush Patra (Veer Surendra Sai University of Technology, Burla, India), Bibhuti Pati (Veer Surendra Sai University of Technology, India) 424

Finite Element Analysis of Composite Overwrapped Pressure Vessel for Hydrogen Storage
Atul S Takalkar (VIT University, India), Shantanu S Bhat (KIT's College of Engineering, India), Shubham S Chavan (KIT's College of Engineering, India), Swapnil B Kamble (KIT's College of Engineering, India), Arpit P Kulkarni (KIT's College of Engineering, India), Sandesh B Sangale (KIT's College of Engineering, India) 430

A Novel Design Microstage Based on Piezoeletric Actuation
Kiran Junagal (Rajasthan Technical University Kota Rajasthan India, India), R. s. Meena (UCE, KOTA, India) 437

Fixed Point Implementation of Trigonometric Function Using Taylor's Series and Error Characterization
Sunil Prasad (National Aerospace Laboratories, India), C. m. Ananda (National Aerospace Laboratory, India), Rekha S (PES Institute of Technology, Bangalore, India), Somesh Nandi (PES Institute of Technology, India) 442

Performance Comparison of Proximal Methods for Regression with Nonsmooth Regularizers on Real Datasets
Mridula Verma (Indian Institute of Technology, (BHU), Varanasi, India), K K Shukla (IIT-BHU, India) 447

A Fast Universal Search by Equivalent Program Pruning
Swarna Kamal Paul (Tata Consultancy Services & Jadavpur University, India), Parama Bhaumik (Jadavpur University, India) 454

Circular Polarization in Transparent Circular Patch with Defected Structure
Nurul Gondane (SPPU PUNE, India), Jayashree Shinde (SAE KONDHWA PUNE, India), Pratap Shinde (SAE KONDHWA PUNE, India) 461

Multi User Interference Characterization of Multiband OFDM UWB System in the Presence of Log-normal Fading Channels
Sai Krishna Kondoju (National Institute of Technology Warangal, India), Venkata Mani Vakamulla (National Institute of Technology Warangal, India) 466

A Novel Decoding Technique for Least-Squares Notching Precoder in OFDM Cognitive Radio
Ravinder Kumar (Indian Institute of Technology Roorkee, India) 472

Hiper-Ping: Data Plane Based High Performance Packet Generation Bypassing Kernel on X86 Based Commodity Systems
Aravind Ajayan (Amrita University, India), Prabaharan Poornachandran (Amrita Vishwa Vidyapeetham, Amrita University, India), Manu Krishnan (Amrita Vishwa Vidyapeetham, India), Soumajit Pal (Amrita University, India) 478

Improved Set-Membership Partial-Update Pseudo Affine Projection Algorithm
Felix Albu (Valahia University of Targoviste, Romania), Paulo Diniz (UniversidadeFederal do Rio de Janeiro, Brazil) 484

Analytical Study on the Effect of Dimension and Position of Slot for the Designing of Ultra Wide Band (UWB) Microstrip Antenna
Ranjan Mishra (University of Petroleum and Energy Studies Dehradun, India), Raj Gaurav Mishra (University of Petroleum and Energy Studies, Dehradun, India), Piyush Kuchhal (University of Petroleum and Energy Studies, Dehradun, India) 488

ICACCI-06: NLP'16/Natural Language Processing and Machine Translation (Regular Papers)

Detection of a New Class in a Huge Corpus of Text Documents Through Semi-Supervised Learning
Guru D S (Mysore University, India), Mahamad Suhil (University of Mysore, India), Harsha S Gowda (University of Mysore, India), Lavanya Narayana Raju (University of Mysore, India) 494
Analysis of Polysemy Words in Kannada Sentences Based on Parts of Speech
Rahul Rao (M S Ramaiah Institute of Technology, India), Jagadish S Kallimani (M S Ramaiah Institute of Technology, India) 500
ResearchAssist: Analyzing Author Interests
Debarati Das (PES Institute of Technology, India), Lisa Thomas (PES Institute of Technology, India), Kavi Mahesh (PES Institute of Technology, India) 505
Multiclass Classification and Class Based Sentiment Analysis for Hindi Language
Sumitra Purushottam Pundlik (MIT College Of Engineering Kothrud Pune, India), Prachi Kasbekar (MIT College of Engineering, India), Gajanan Gaikwad (MIT College of Engineering, India), Prasad Dasare (MIT College of Engineering, India), Akshay Gawade (MIT College of Engineering, India), Purushottam Pundlik (Design Engineer, India) 512
Automatic Ranking of Essays Using Structural and Semantic Features
Sunil Kumar Kopparapu (Tata Consultancy Services, India), Arijit De (TCS, India) 519
Sentiment Analysis for Mixed Script Indic Sentences
Rupal Bhargava (Birla Institute of Technology & Science, Pilani, Pilani Campus, India), Yashvardhan Sharma (Faculty, CS & IS, BITS-Pilani, India), Shubham Sharma (Birla Institute of Technology and Science, India) 524
Multi-level Inflection Handling Stemmer Using Iterative Suffix-Stripping for Malayalam Language
Balasankar C (Adi Shankara Institute of Engineering and Technology, Kalady, India), Sobha T (MG University, India), Manusankar C (SSV College Valayanchirangara & Mahathma Gandhi University, India) 530
Coreference Between Subjective Expression and Holder:A Classification Perspective
Sunit Bhattacharya (Central University of Rajasthan, India), Dipankar Das (Jadavpur University, India) 535
A Rule Based Question Generation Framework to Deal with Simple and Complex Sentences
Rubel Das (Jadavpur University, India), Antariksha Ray (Jadavpur University, India), Souvik Mondal (Jadavpur University, India), Dipankar Das (Jadavpur University, India) 542
Rule Based Kannada Agama Sandhi Splitter
Shashirekha Hosahalli Lakshmaiah (Mangalore University, India), Vanishree Kasaravalli Suryanarayana (Government First Grade College Shikaripura, India) 549

ICACCI-07: Fourth International Symposium on Intelligent Informatics (ISI'16) - Regular Papers

Common Threats to Software Quality Predictive Modeling Studies Using Search-based Techniques
Ruchika Malhotra (Delhi Technological University, India), Megha Khanna (Delhi Technological University, India) 554

Facial Expression Based Music Player
Sushmita Kamble (KLS Gogte Institute of Technology, India), Anandtirth Kulkarni (KLSGIT, India) 561

Clustering using Cuckoo Search Levy Flight
Aishwarya Palaiah (PESIT, India), Akshata Prabhu (PESIT, India), Reetika Agrawal (PESIT, India), Natarajan S (VTU, India) 567

The Winner Decision Model of Tic Tac Toe Game by using Multi-Tape Turing Machine
Sneha Garg (Goverment Mahila Engineering College, Ajmer, India), Dalpat Songara (Rajasthan Technical University, India) 573

Application of Transfer Learning in RGB-D object recognition
Abhishek Kumar (Vellore Institute of Technology, India), Nithin Shrivatsav Srikanth (National Institute of Technology, Tiruchirappalli, India), Gorthi R K Sai Subrahmanyam (IIST, India), Deepak Mishra (IIST, India) 580

Comparative Study of the Impact of Processor Architecture on Compiler Tuning
CH N A B Sankar (University of Hyderabad & ANURAG DRDO, India), Rajeev Wankar (University of Hyderabad, India) 585

Extension of the Multi-Agent Resource Conversion Processes Model: Implementation of Agent Coalitions
Konstantin Aksyonov (Ural Federal University, Russia), Eugene Bykov (Ural Federal University, Russia), Olga Aksyonova (Ural Federal University, Russia), Alena Nevolina (Ural Federal University, Russia), Natalia Goncharova (Ural Federal University, Russia) 593

Stroke Based Online Handwritten Gurmukhi Character Recognition
Ramandeep Kaur (Thapar University, India), Mandeep Singh (Thapar University, India) 598

Multi-agent planning with Quantitative Capability
Satyendra Chouhan (IIT Roorkee, India), Rajdeep Niyogi (Indian Institute of Technology Roorkee, India) 602

Evaluating Applicability of Perturbation Techniques for Privacy Preserving Data Mining by Descriptive Statistics
Alpa Shah (Sarvajanik College of Engineering and Technology & Gujarat Technological University, India), Ravi Gulati (Veer Narmad South Gujarat University, India) 607

Cross-Reference EWOD Driving Scheme and Cross- Contamination Aware Net Placement Technique for MEDA Based DMFBs
Pampa Howladar (Indian Institute of Engineering Science and Technology, Shibpur, India), Debashri Roy (University of Central Florida, USA), Pranab Roy (Indian Institute of Engineering Science and Technology, Shibpur, India), Hafizur Rahaman (Bengal Engineering and Science University, Shibpur, India) 614

Rule-Based System for Automated Classification of Non-Functional Requirements from Requirement Specifications
Prateek Singh (GLA University, India), Deepali Singh (GLA University, India), Ashish Sharma (GLA University, India) 620

Frequency-based similarity measure for Context-Aware Recommender Systems
Mohammed Wasid (Aligarh Muslim University, India), Vibhor Kant (Jawaharlal Nehru University, India), Rashid Ali (AMU Aligarh, India) 627
Chaotic Hash Function Based Plain-Image Dependent Block Ciphering Technique
Sahil Wadhwa (Jamia Millia Islamia, India), Musheer Ahmad (Jamia Millia Islamia, New Delhi, India), Harsh Vijay (Jamia Millia Islamia, India) 633
A Biometrics-based Robust and Secure User Authentication Protocol for e-Healthcare Service
Sandip Roy (Asansol Engineering College, India), Santanu Chatterjee (Research Center Imarat & Defence Research and Development Organization, Hyderabad, India), Samiran Chattopadhay (Jadavpur University, India), Amit Gupta (DRDO, India) 638
Bridging the Skill Gap Using Vocational Training Simulators: Validating Skill Assessment Metrics
Aswathi P (AMMACHI Labs, Amrita School of Engineering, Amritapuri, Amrita Vishwa Vidyapeetham, Amrita University, India, India), Amritha Natarajan (AMMACHI Labs, Amrita School of Engineering, Amritapuri, Amrita Vishwa Vidyapeetham, Amrita University, India, India), Namitha K (AMMACHI Labs, Amrita School of Engineering, Amritapuri, Amrita Vishwa Vidyapeetham, Amrita University, India, India), Nagarajan Akshay (AMMACHI Labs, Amrita School of Engineering, Amritapuri, Amrita Vishwa Vidyapeetham, Amrita University, India, India), Balu M Menon (AMMACHI Labs, Amrita School of Engineering, Amritapuri, Amrita Vishwa Vidyapeetham, Amrita University, India, India), Rao R. Bhavani (AMMACHI Labs, Amrita School of Engineering, Amritapuri, Amrita Vishwa Vidyapeetham, Amrita University, India, India) 645

ICACCI-10: Signal/Image/video/speech Processing/Computer Vision/Pattern Recognition (Regular Papers)

Identifying High Quality Jpeg Compressed Images Through Exhaustive Recompression Technique
Zeeshan Akhtar (ZHCET AMU Aligarh, India), Ekram Khan (Aligarh Muslim University, India) 652
Statistical Textural Feature and Deformable Model Based MR Brain Tumor Segmentation
Shoaib Banday (NIT Srinagar, India), Ajaz H. Mir (National Institute of Technology Srinagar, India) 657
Hardware and Software Implementation of Weather Satellite Imaging Earth Station
Chinmay Patil (University of Mumbai, India), Tanmay Chavan (University of Mumbai, India), monali nitin Chaudhari (University of Mumbai, India) 664
Head Pose Estimation for Recognizing Face Images Using Collaborative Representation Based Classification
Srija Chowdhury (Indian Institute of Engineering Science and Technology, Shibpur, India), Jaya Sil (Indian Institute of Engineering Science and Technology, Shibpur, India) 671
Breast Cancer Detection Using Non-invasive Method for Real Time Dataset
Basavaraj Hiremath (MSRIT and Jain University, India), Prasannakumar S C (RVCE, Bangalore, India), Praneethi K (MSRTH, India) 676

A Novel ECG Data Compression Algorithm Using Best Mother Wavelet Selection
Amol Motinath Veer (Indian Institute of Technology Patna, India), Chandan Kumar Jha (Indian Institute of Technology Patna, India), Mahesh Kolekar (Indian Institute of Technology Patna, India) 682
Reconstruction of Surveillance Videos by Non-Iterative Pseudo Inverse Based Recovery Algorithm (NIPIRA): A Subjective Experience
Florence Gnana Poovathy John (SSN College of Engineering & Anna University, Chennai, India), S Radha (SSN College of Engineering & Anna University, India) 687
Reinforced Fast Marching Method and Two Level Thresholding Algorithm for Cloud Detection
Harinder Kaur (Punjabi University Patiala, India), Neelofar Sohi (Punjabi University Patiala, India) 693
Combining Temporal Interpolation and DCNN for Faster Recognition of Micro-expressions in Video Sequences
Veena Mayya (Manipal Institute Of Technology & Manipal University, India), Radhika M. Pai (Manipal Institute of Technology, India), Manohara Pai (Manipal Institute of Technology & Manipal University, India) 699
Quantitative Analysis of Break-lock in Monopulse Receiver Phase-Locked Loop Using Noise Jamming Signal
Harikrishna Paik (V R Siddhartha Engineering College, India), Neti Narasimha Sastry (V R Siddhartha Engineering College, India), SantiPrabha I (J N T K University, India) 704
Dynamic Sectored Random Projection for Cancelable Iris Template
P Punithavathi (VIT University Chennai Campus, India), S Geetha (VIT University Chennai Campus, India) 711
A Fast Algorithm for Optic Disc Segmentation in Fundus Images
Santhakumar Ramamoorthy (VIT University, India), Elagiri Ramalingam Rajkumar (VIT University, India), Megha Tandur (Visvesvaraiah Technological University, India), Geetha K s (VTU, RVCE, India), Kumar Rajamani (Robert Bosch Engineering and Business Solutions Limited, India), Girish Haritz (Robert Bosch Engineering and Business Solutions, India) 716
Undecimated Dual Tree Complex Wavelet Transform Based Face Recognition
Rajesh D S (Mangalore University, India), B H Shekar (Mangalore University, India) 720
Multiple Instance Learning for the Determination of Appropriate Images for Fundus Image Algorithms
Amruthavarshini Talikoti (R. V. College of Engineering, India), Kavya Venkatesan (R V College of Engineering, India), Geetha K s (VTU, RVCE, India), Digvijay Singh (Medanta-The Medicity, India), Kumar Rajamani (Robert Bosch Engineering and Business Solutions Private Limited, India) 727

ICACCI-11: Artificial Intelligence and Machine Learning/Data Engineering/Biocomputing (Regular Papers)

Enhanced Shuffled Bat Algorithm (EShBAT)
Hema Banati (University of Delhi & Dyal singh College, India), Reshu Chaudhary (University of Delhi, India) 731
Exploiting Apache Flink's Iteration Capabilities for Distributed Apriori: Community Detection Problem as an Example
Sanjay Rathee (Indian Institute of Technology Mandi, Himachal Pardesh, India), Arti Kashyap (IIT-Mandi, India) 739

Predicting Software Change-Proneness with Code Smells and Class Imbalance Learning
Arvinder Kaur (Guru Gobind Singh Indraprastha University, India), Kamaldeep Kaur (Guru Gobind Singh Indraprastha University, India), Shilpi Jain (Guru Gobind Singh Indraprastha University Delhi, India) 746
Review of Back-propagation Algorithms for Defect Elimination with Proposed DMASIC Methodology
Shweta Loonkar (Mukesh Patel School of Technology Management and Engineering, Mumbai, India), Dhirendra Mishra (Mukesh Patel School of Technology Management and Engineering, Mumbai, India) 755
Generalized Similarity Measure for Categorical Data Clustering
Shruti Sharma (Gurukul Institute of Engineering & Technology kota, India) 765
An Empirical Semi-Supervised Machine Learning Approach on Extracting and Ranking Document Level Multi-Word Product Names Using Improved C-value Approach
Sivashankari R (VIT Univerisity, Vellore, India), Valarmathi B (VIT Uuniversity, Vellore, India) 770
An Adaptive Distributed Approach of a Self Organizing Map Model for Document Clustering Using Ring Topology
Ajeissh Mukundan (Amrita Vishwa Vidyapeetham, India), Sandhya Harikumar (Amrita Vishwa Vidyapeetham, India) 776
Fast Convergent Biogeography Based Optimization Algorithm
Priya Sharma (Rajasthan Technical University kota Rajasthan INDIA, India), Harish Sharma (Rajasthan Technical University, Kota, India) 782
Elitism Based Shuffled Frog Leaping Algorithm
Pragya Sharma (RTU, India) 788
Predicting Rice Crop Yield Using Bayesian Networks
Niketa Gandhi (University of Mumbai, India), Leisa J Armstrong (Edith Cowan University, Australia), Owaiz Petkar (University of Mumbai, India) 795
Rainfall-Runoff Modeling Using Computational Intelligence Techniques
Dhananjay Kumar (Central University of South Bihar, Patna, India), Pradhan Sarthi (Central University of South Bihar, Patna, India), Prabhat Ranjan (Central University of South Bihar, India) 800
Distributed Feature Selection Using Vertical Partitioning for High Dimensional Data
Bakshi Prasad (IIIT-Allahabad, India), Unmesh Bendale (IIIT-Allahabad, India), Sonali Agarwal (Indian Institute of Information Technology, Allahabad, India) 807
Discovering Preservation Pattern From Co-Expression Modules in Progression of HIV-1 Disease: An Eigengene Based Approach
Sumanta Ray (Aliah University, India), SK MD Mosaddek Hossain (Aliah University, India), Lutfunnesa Khatun (Aliah University, India) 814

ICACCI-12: Security, Trust and Privacy/Steganography (Regular Papers)

Robust distributed Key issuing Protocol for Identity based cryptography
Dasari Kalyani (VNRVJIET, India) 821

Local Binary Pattern Operator Based Steganography in Wavelet Domain
Anuradha Singhal (University of Delhi, India), Punam Bedi (University of Delhi, India) 826

A Practical Identity Based Signcryption Scheme From Bilinear Pairing
Arijit Karati (Indian School of Mines, India), G P Biswas (ISM Dhanbad, India) 832

Improving False Alarm Rate in Intrusion Detection Systems Using Hadoop
Mukund Yelahanka Raghuprasad (National Institute of Technology Karnataka, India), Sunil Nayak (National Institute of Technology Karnataka, India), Chandra Sekaran K (National Institute of Technology Karnataka, India) 837

Cryptographic Turbo Code for Image Transmission Over Mobile Networks
Vidya Sawant (NMIMS University & MPSTME, India), Archana Bhise (Mukesh Patel School of Technology Management & Engineering, India) 844

Performance Measurements for Hypervisors on Embedded ARM Processors
Axel Sikora (University of Applied Sciences Offenburg, Germany), Sebouh Toumassian (University of Applied Sciences Offenburg, Germany), Rico Werner (University of Applied Sciences Offenburg, Germany) 851

A Hybrid Intelligent Security Technique used for Digital Still Image
Sudhanshu S. Gonge (Savitribai Phule Pune University & Genba Sopanrao Moze College of Engineering Pune, India), Ashok Anandrao Ghatol (Director Genba Sopanrao Moze College of Engineering Pune, India) 856

Split First Encryption Next Model for Cotenant Covert Channel Protection
Sankarasetty Rama krishna (VYCET, CHIRALA, India), Bokka Padmaja Rani (Jawaharlal Technological university, India) 866

Image Encryption using Wavelet based Chaotic Neural Network
Sushil Kumar (Guru Gobind Singh Indraprastha University, India) 875

Lightweight Security Framework for IoTs using Identity based Cryptography
Sriram Sankaran (Amrita University, India) 880

Secure Strategic Mail Application with Hardware Device
Thirumal kumar Kanakurthi (BEL & BEL, India), Hemanth Kumar Nooka (CRL-BEL, India), Anka rao Ittadi (BEL, India), Akila M (BEL-CRL, India), Bhanusree K (BEL-CRL, India) 887

ICACCI-13A: Artificial Intelligence and Machine Learning/Data Engineering/Biocomputing (Regular Papers)

Lbest Gbest Artificial Bee Colony Algorithm

Harish Sharma (Rajasthan Technical University, Kota, India), Sonal Sharma (Career Point University, Kota, India), Sandeep Kumar (Jagannath University Jaipur, India) 893

Designing Automatic Note Transcription System for Hindustani Classical Music

Prasenjit Dhara (IIT-Kharagpur, India), Pradeep Rengaswamy (IIT Kharagpur, India), K. Sreenivasa Rao (IIT KGP, India) 899

Simple yet Effective Classification Model for Skewed Text Categorization

Mahamad Suhil (University of Mysore, India), Guru D S (Mysore University, India), Lavanya Narayana Raju (University of Mysore, India), Harsha S Gowda (University of Mysore, India) 904

An Improved Fuzzy Based Approach to Impute Missing Values in DNA Microarray Gene Expression Data with Collaborative Filtering

Sujay Saha (Heritage Institute of Technology, India), Anupam Ghosh (Netaji Subhas Engineering College, India), Saikat Bandopadhyay (Heritage Institute of Technology, India), Kashi Nath Dey (University of Calcutta, India) 911

Computational Reconstruction of fMRI-BOLD From Neural Activity

Chaitanya Nutakki (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, Amrita University, India), Ahalya Nair (Amrita Vishwa Vidyapeetham, Amrita University, India), Chaitanya Medini (Amrita Vishwa Vidyapeetham (Amrita University), India), Manjusha Nair (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, India), Bipin Nair (Amrita Vishwa Vidyapeetham (Amrita University), India), Shyam Diwakar (Amrita Vishwa Vidyapeetham (Amrita University), India) 917

Computing LFP From Biophysical Models of Neurons and Neural Microcircuits

Sandeep Bodda (Amrita Vishwa Vidyapeetham, Amrita University, India), Harilal Parasuram (Amrita Vishwa Vidyapeetham (Amrita University), India), Bipin Nair (Amrita Vishwa Vidyapeetham (Amrita University), India), Shyam Diwakar (Amrita Vishwa Vidyapeetham (Amrita University), India) 922

A Study of Gene Prioritization Algorithms on PPI Networks

Sinsha KP (Amrita University, India), Bhadrachalam Chitturi (Amrita University, USA) 927

Identification of Olfactory Receptors Using a Parametric Model

Pranay Sakhare (Dr B R Ambedkar NIT Jalandhar, India), Rajneesh Rani (Dr B R Ambedkar NIT Jalandhar, India), Ranjeet Kumar Rout (Dr B R Ambedkar NIT Jalandhar, India) 935

Alignment Free Promoter Sequences Analysis Using Feature Reduced Cumulative Distribution of Motifs

Kouser K (University of Mysore, India), Lalitha Rangarajan (University of Mysore, India) 941

Faster Mahalanobis K-Means Clustering for Gaussian Distribution

Ankita Chokniwal (Gurukul Institute of Engineering and Technology, Kota ,Rajasthan, India), Manoj Singh (Gurukul Institute of Engineering and Technology, India) 947

Effect of Event Sequence on Intragroup Dynamics: Simulation Using Modified Hopfield Neural Network

Amita Kapoor (University of Delhi & Shaheed Rajguru College of Applied Sciences for Women, India), Narotam Singh (IMD, Ministry of Earth Sciences, India) 953

Design and Development of Balance Training Platform and Games for People with Balance Impairments
Amritha N (AMMACHI Labs, Amrita School of Engineering, Amritapuri, Amrita Vishwa Vidyapeetham, Amrita University, India, India), Mahima M. Menon (AMMACHI Labs, Amrita School of Engineering, Amritapuri, Amrita Vishwa Vidyapeetham, Amrita University, India, India), Namitha K (AMMACHI Labs, Amrita School of Engineering, Amritapuri, Amrita Vishwa Vidyapeetham, Amrita University, India, India), Radhakrishnan Unnikrishnan (AMMACHI Labs, Amrita School of Engineering, Amritapuri, Amrita Vishwa Vidyapeetham, Amrita University, India, India), Harish Mohan (AMMACHI Labs, Amrita School of Engineering, Amritapuri, Amrita Vishwa Vidyapeetham, Amrita University, India, India), Ravi Sankaran (Department of Physical Medicine and Rehabilitation, Amrita Institute of Medical Sciences and Research Center, Kochi, India), Rao R. Bhavani (AMMACHI Labs, Amrita School of Engineering, Amritapuri, Amrita Vishwa Vidyapeetham, Amrita University, India, India) 960
Design & Realization of Multi Mission Data Handling System for Remote Sensing Satellite
Lalitkrushna J Thakar (Indian Space Research Organization, India), Chayan Dutta (ISRO Satellite Centre, India), P s Sura (Indian Space Research Organization, India), S Udupa (ISRO Satellite Centre, India) 967
Effort Estimation of Web-based Applications Using Machine Learning Techniques
Shashank Mouli Satapathy (Manipal University Jaipur, India), Santanu Kumar Rath (National Institute of Technology (NIT), Rourkela, India) 973

ICACCI-13B: Artificial Intelligence and Machine Learning/Data Engineering/Biocomputing (Regular Papers)

Impact of Dilution of Precision for Position Computation in Indian Regional Navigation Satellite System
Mehul Desai (Sardar Vallabhbhai National Institute of Technology, Surat, India), Darshna Jagiwala (Sardar Vallabhbhai National Institute of Technology, Surat, India), Shweta Shah (Sardar Vallabhbhai National Institute of Technology, Surat, India) 980
Neuro-Endo-Activity-Tracker: An Automatic Activity Detection Application for Neuro-Endo-Trainer
Britty Baby (Indian Institute of Technology Delhi, India), Vinkle Srivastav (Indian Institute of Technology Delhi, India), Ramandeep Singh (Indian Institute of Technology, Delhi, India), Ashish Suri (All India Institute of Medical Sciences, India), Subhashis Banerjee (Indian Institute of Technology Delhi, India) 987
An FSM Based Methodology for Interleaved and Concurrent Activity Recognition
Kavya J (Amrita School of Engineering, Amritapuri, Amrita Vishwa Vidyapeetham, Amrita University, India), Geetha M (Amrita University, Amritapuri, Kollam India Clappana P O, India) 994
Improving the Intelligibility of Dysarthric Speech Towards Enhancing the Effectiveness of Speech Therapy
Arun Kumar Shanmugam (AMRITA University, India), Santhosh C Kumar (Amrita Vishwa Vidyapeetham, India) 1000
Indian Sign Language Recognition: An Approach Based on Fuzzy-Symbolic Data
Nagendraswamy H S (University of Mysore, India), BM Chethana Kumara (University of Mysore, India), R Lekha Chinmayi (University of Mysore, India) 1006
Language Identification Using PLDA Based on I-Vector in Noisy Environment
Manish Rai (Central University of South Bihar, India), Jainath Yadav (IIT Kharagpur, India), K. Sreenivasa Rao (IIT KGP, India),

Neetish Kumar (Central University of Bihar, India), Md. Shah Fahad (Central University of South Bihar, India) 1014
Assessing impact of seasonal rainfall on rice crop yield of Rajasthan, India using Association Rule Mining
Niketa Gandhi (University of Mumbai, India), Leisa J Armstrong (Edith Cowan University, Australia) 1021
Object Based Schema Oriented Data Storage System for Supporting Heterogeneous Data
Anindita SarkarMondal (Jadavpur University, India), Samiran Chattopadhyay (Jadavpur University, India), Sarmistha Neogy (Jadavpur University, India), Nandini Mukherjee (Jadavpur University, India) 1025
HealthAnalytic: A Concept Application for Customizable Visualization and Analysis of Health Informatics Datasets
Sumit Soman (Center for Development of Advanced Computing, India), Sushil Kumar (Center for Development of Advanced Computing, India), Sujeet Kumar (CDAC, India) 1033
Performance Prediction and Behavioral Analysis of Student Programming Ability
Medha Sagar (Indira Gandhi Institute of Technology & Guru Gobind Singh Indraprastha University, India), Arushi Gupta (Indira Gandhi Delhi Technical University for Women, India), Rishabh Kaushal (Indira Gandhi Delhi Technical University for Women, India) 1039
A Comparative Study of Segment Representation for Biomedical Named Entity Recognition
Shashirekha Hosahalli Lakshmaiah (Mangalore University, India), Hamada Ali Nayel (Mangalore University & Benha University, India) 1046
Term-Class-Max-Support (TCMS): A Simple Text Document Categorization Approach Using Term-Class Relevance Measure
Guru D S (Mysore University, India), Mahamad Suhil (University of Mysore, India) 1053
A Multi-Cue Information Based Approach to Contour Detection by Utilizing Superpixel Segmentation
Sandipan Choudhuri (Jadavpur University, India), Nibaran Das (Jadavpur University, India), Swarnendu Ghosh (Jadavpur University, India), Mita Nasipuri (Jadavpur University, India) 1057

ICACCI-14: Symposium on Advances in Applied Informatics (SAI'16) - Regular Papers

DoS Attack Detection Technique Using Back Propagation Neural Network
Monika Khandelwal (NIT Jalandhar, India), Deepak Kumar Gupta (National Institute of Technology Jalandhar, India), Pradeepkumar Bhale (ABV-Indian Institute of Information Technology and Management, India) 1064
Role of Physical Environment (Dinescape Factors Influencing Customers' Revisiting Intention to Restaurants
Saravanan Mahalingam (Amrita School of Business, Coimbatore Amrita Vishwa Vidyapeetham Amrita University India, India), Bhawana Jain (Amrita School of Business, Coimbatore Amrita Vishwa Vidyapeetham Amrita University India, India), Mridula Sahay (Amrita Vishwa Vidyapeetham University, India) 1069
Learning Curve Analysis for Virtual Laboratory Experimentation
Saneesh F (Amrita Vishwa Vidyapeetham, India), Vysakh Kanikkolil (Amrita Vishwa Vidyapeetham, India), Krishnashree Achuthan (Amrita School of Engineering, India) 1073
Interactive Learning System for the Hearing Impaired and the Vocally Challenged

Hrishikesh N (Amrita School of Engineering, India), Jyothisha J Nair (Amrita University, India) 1079
Auto-annotation of Tomato Images Based on Ripeness and Firmness Classification for Multimodal Retrieval
Priti Sehgal (Keshav College, University of Delhi, India), Nidhi Goel (University of Delhi, India) 1084
Fatigue Detection and Estimation Using Auto-Regression Analysis in EEG
Abhinandan Jain (Aligarh Muslim University, India), Baqar Abbas (Aligarh Muslim University, India), Omar Farooq (Aligarh Muslim University, Aligarh, India), Shashank Garg (Aliagarh Muslim University, India) 1092
An Enhancement in Automatic Seed Selection in Breast Cancer Ultrasound Images Using Texture Features
Lipismita Panigrahi (NIT RAIPUR, Chhattisgarh, India) 1096
Intelligent Information Retrieval for Tsunami Detection Using Wireless Sensor Nodes
Deepali Virmani (BPIT, GGSIPU & BPIT, IP University, Delhi, India), Nikita Jain (Bhagwan Parshuram Institute of Technology, GGSIPU, India) 1103
Fine Grained Key Computation Scheme for Secure Data Sharing in Cloud
Deepa Maria Polson (College of Engineering, tvm, India), Sabitha S (College of Engineering, Trivandrum, India), M S Rajasree (IIITMK, India) 1110
QoE assesment of MPEG-DASH in polimedia e-learning System
Laura Garcia (Universidad Politecnica de Valencia, Spain, Spain), Jaime Lloret (Universidad Politecnica de Valencia, Spain, Spain), Carlos Turro (Universidad Politecnica de Valencia, Spain, Spain), Miran Taha (Universidad Politecnica de Valencia, Spain, Spain) 1117
Ubiquitous Energy Efficient Aquaculture Management System
Sangeetha Rajesh (K. J. Somaiya Institute of Management Studies and Research, India) 1124
Empirical Mode Decomposition vs. Variational Mode Decomposition on ECG Signal Processing: A Comparative Study
Uday Maji (Haldia Instiyute of Technology, India) 1129
Analysis of Echo Cancellation Techniques in Multi-Perspective Smart Classroom
Ramesh Guntha (Amrita Center for Wireless Networks and Applications, Amrita Vishwa Vidyapeetham University, India), Balaji Hariharan (Amrita University, India), Venkat Rangan (Amrita University, India) 1135
Exploring Concept of QR Code and Its Benefits in Digital Education System
Saroj Goyal (MACERC, India), Surendra Yadav (MACERC JAIPUR, India), Manish Mathuria (Rajasthan Technical University, India) 1141

ICACCI-19: Symposium on Intelligent Informatics (ISI'16)/Symposium on Advances in Applied Informatics (SAI'16)

Effective Discriminant Function for Intrusion Detection Using SVM
Ramasani Ravinder Reddy (Osmania University, India) 1148
Environmental Awareness Around Vehicle Using Ultrasonic Sensors

Priya Hosur (B. V. Bhoomraddi College Of Engineering and Technology, India), Rajashekar Basavaraj Shettar (Vishweswaraya technological University, Belgaum.Karnataka State, India), Milind Potdar (KPIT, India) 1154
Speech Signal Analysis for the Estimation of Heart Rates Under Different Emotional States
Alex Pappachen James (Nazarbayev University & Enview R&D Labs, Kazakhstan), Aibek Ryskaliyev (Nazarbayev University, Kazakhstan), Sanzhar Askaruly (Nazarbayev University, Kazakhstan) 1160
Exploratory Test Oracle using Multi-Layer Perceptron Neural Network
Wellington Makondo (Harare Institute of Technology, Zimbabwe), Raghava Srinivasa Nallanthighal (DTU, Delhi, India), Innocent Mapanga (Harare Institute of Technology, Zimbabwe), Prudence Kadebu (Harare Institute of Technology, Zimbabwe) 1166
Analysis of Compressive Sensing For Non Stationary Music Signal
Vivek Upadhyay (MNIT, India), Amit Joshi (Malviya National Institute of Technology, India) 1172
Lab VIEW Event handling using EPICS PV for ICRH DAC SOFTWARE
Ramesh Joshi (Institute for Plasma Research, India), HM Jadav (Institute for Plasma Research, India), Aniruddh Mali (Gujarat Technological University, India), S Kulkarni (Institute for Plasma Research, India) 1177
FPGA based Hardware Implementation of Automatic Vehicle License Plate Detection System
Surbhi Chhabra (The LNM Institute of Information Technology, Jaipur, India), Himanshu Jain (The LNM Institute of Information Technology, Jaipur, India), Sandeep Saini (The LNM Institute of Information Technology, India) 1181
An Efficient Method of Detecting Exudate in Diabetic Retinopathy:Using Texture Edge Features
Priyadarshini M Patil (BVB College of Engineering & Technology, India), Pooja Shettar (BVB College of Engineering, Hubli, India), Prashant Narayankar (BVBhoomaraddi College of Engineering and Technology, India), Mayur Patil (Tesco Bengaluru, India) 1188
The Relationship between IT Adoption, IS Success and Project Success
Thanh D. Nguyen (Banking University of Ho Chi Minh City, Vietnam), Tuan M. Nguyen (HCMC University of Technology, Vietnam), Thi H. Cao (Saigon Technology University, Vietnam) 1192
Efficient User Assignment in Crowd Sourcing Applications
Akash Yadav (Indian Institute of Technology, Patna, India), Ashok Singh Sairam (Indian Institute of Technology Patna, India), Rituraj Singh (IIT Patna, India) 1199
Image Steganography Method Using K-Means Clustering and Encryption Techniques
Bhagya Pillai (Amrita Vishwa Vidyapeetham, India), Padmamala Sriram (Amrita University, India), Pooja Rao (Amrita Vishwa Vidyapeetham, Afghanistan), Mundra Mounika (Amrita Viswa Vidyapeetham, India) 1206
CMAC: Collaborative Multi Agent Computing for Multi Perspective Multi Screen Immersive e-Learning System
Ramesh Guntha (Amrita Center for Wireless Networks and Applications, Amrita Vishwa Vidyapeetham University, India), Balaji Hariharan (Amrita University, India), Venkat Rangan (Amrita University, India) 1212
Classification of Text Documents Using Association Rule Mining with Critical Relative Support Based Pruning
Saurabh Mathur (VIT University, India), Karthik Prabhakar (VIT University, India), Chandrasekhar Uddagiri (H. No 6 2nd cross C Sector V G Rao Nagar Katpadi Vellore TN & VIT University, Vellore, India) 1219

ICACCI-22: Symposium on Emerging Topics in Circuits and Systems (SET-CAS'16)

Sparse Channel Estimation Using Orthogonal Matching Pursuit Algorithm for SCM-OFDM System
Rashmi N (BMS Institute of Technology and Management, India), Mrinal Sarvagya (Reva Institute of Technology and Management, India) 1224
Low- Power and High Performance Clocked Regenerative Comparator At 90nm CMOS Technology
Shweta Gupta (Chandiagrh University Gharuan Punjab, India) 1228
Design and Implementation of Hybrid 4-bit Flash ADC
Kriti Thakur (Chandigarh University, India) 1233
TFET Simulation Using Matlab and Sentaraus TCAD
Rockey Bhardwaj (Chandigarh University, India), Gurinderpal Singh (Chandigarh University, Punjab, India) 1238
Common Mode Implications of a Dynamic Latched Comparator
Anurag Sharma (Chandigarh University, Punjab, India), Gurinderpal Singh (Chandigarh University, Punjab, India) 1245
A Novel Design of Micro-gripper with Enhanced Displacement
Vijay Rundla (Rajasthan Technical University, India), Ajay Khunteta (Rajasthan Technical University & Kota Rajasthan India, India) 1250
Performance Analysis of MANET Routing Protocols in Smart City Message Passing
Elizabeth Jacob (Amrita Vishwa Vidyapeetham, Amrita University, India), Sivraj P (Amrita Vishwa Vidyapeetham, Amrita University & Amrita School of Engineering, India) 1255
Design and Analysis of Cross-Fed Rectangular Array Antenna; an X-Band Microstrip Array Antenna, Operating At 11 GHz
Nitin M Varghese (Karunya University, India), Shweta Vincent (Manipal University, India), Om Kumar (Manipal University & Manipal Institute of Technology, India) 1261
Built in Self-Test Scheme for SRAM Memories
Abhinav Sharma (VIT University, India), Ravi V. (VIT University, India) 1266

ICACCI-25: Symposium on Emerging Topics in Computing and Communications (SETCAC'16)/Symposium on Signal Processing for Wireless and Multimedia Communications (SPWMC'16)

A Novel Method for Resource Discovery From a Range Based Request in a P2P Network
Krishna Prasad (Amrita Vishwavidyapeetham University, India), G. p. Sajeev (Amrita University & Govt Engineering College, India) 1271
On the Selection of Mobility Optimised Routing Protocol for City Scenario using Multi Interface Car in VANET

Kanu Priya (Guru Nanak Dev University, India) 1277
An Authentication Framework for Securing Virtual Machine Migration
Santosh Kumar Majhi (Veer Surendra Sai University of Technology, India), Sunil Dhal (Sri Sri University, Cuttack, India) 1283
Decision Support System for Diagnosis and Prediction of CRF Using Random Subspace Classification
Ani R (Amrita School of Engineering, India), Greeshma Sasi (Amrita School of Engineering, India), Resmi Sankar U (Amrita School of Engineering, India), O s Deepa (Amrita School of Engineering, India) 1287
A Random Forest Approach for Rating-based Recommender System
Ajesh A (Amrita School of Engineering, India), Jijin PS (Amrita School of Engineering, India), Jayashree Nair (Amrita School of Engineering, India) 1293
Attribute Reduction Based Anomaly Detection Scheme by Clustering Dependent Oversampling PCA
Asha Ashok (Amrita Vishwa Vidyapeetham, India), Smitha S (Amrita School of Engineering, India), Kavya Krishna M h (Amrita School of Engineering, India) 1298
Challenge- Response Generation Using RO-PUF with Reduced Hardware
Abhishek Kumar (Lovely Professional University, India) 1305
Multiuser Detection over Generalized-K Fading Channels using Two-Stage Initialized Teaching Learning Based Optimization
Lakshmi Manasa Gondela (University College of Engineering Kakinada, India), Pamula Vinay Kumar (University College of Engineering Kakinada & Jawaharlal Nehru Technological University Kakinada, India), Tipparti Anil Kumar (Department of Electronics and Communication Engineering SVS Group of Institutions Hanamkonda, India 506015, India) 1309
MSVM-based Classifier for Cardiac Arrhythmia Detection
Nasreen Sultana (Bhoj Reddy Engineering College for Women & Vinay Nagar, Santhosh Nagar Cross Roads, Saidabad, Hyderabad, India), Yedukondalu Kamatham (Bhoj Reddy Engineering College for Women & Vinay Nagar, Santhosh Nagar Cross Roads, Saidabad, Hyderabad, India) 1314
An approach to localize the blind node and optimizing parameters by using PSO
Marisha Sohar (Chandigarh University, Mohali, India) 1319
Reduce the effect of vignetting on MIMO optical wireless system by reducing BER of channel
Pallavi Nag (Chandigarh University, Mohali, India) 1324
A New Feature Extraction Method for Identification of Affected Regions and Diagnosis of Cognitive Disorders
Vinith Rejathlal (NITC, India), Sarthaj K (National Institute of Technology Calicut, India), Lijiya A (NIT Calicut, India), V Govindan (NIT Calicut, India) 1329
Selection of Routing Protocols for Advanced Metering Infrastructure
Sree Lekshmi S (Amrita Vishwa Vidyapeetham, Amrita University, India), Sivraj P (Amrita Vishwa Vidyapeetham, Amrita University & Amrita School of Engineering, India), Sasi K Kottayil (Amrita Vishwa Vidyapeetham, India) 1335
Comparative Study of two Pseudo Chaotic Number Generators for Securing the IoT
Ons Jallouli (University of Nantes, France), Mohammed Abutaha (University of Nantes, France), Safwan El Assad (École Polytechnique de l'Université de Nantes & IETR Laboratory, France), Maryline Chetto (Universite de Nantes & IRCCyN Lab, France), Audrey Queudet (University of Nantes, France), Olivier Deforges (IETR / INSA Rennes, France) 1340

ICACCI-16: Fourth International Symposium on Women in Computing and Informatics (WCI-2016) - Regular Papers

Diffusion Models and Approaches for Influence Maximization in Social Networks

Tejaswi V (NITK, Suratkal, India), Pv Bindu (India & National Institute Technology, Karnataka, India), Santhi Thilagam P. (National Institute of Technology Karnataka & Surathkal, India) 1345

How Social Media Can Contribute During Disaster Events?

Neha Pandey (People's Education Society Institute of Technology, India), Natarajan S (VTU, India) 1352

A Preemptive Hybrid Ant Particle Optimization (HAPO-P) Algorithm for Smart Transportation

Vinita Jindal (University of Delhi, India), Vishwaraj Sharma (University of Delhi, India), Punam Bedi (University of Delhi, India) 1357

LASER: A Novel Hybrid Peer to Peer Network Traffic Classification Technique

G. p. Sajeev (Amrita University & Govt Engineering College, India), Lekshmi Nair (Amrita University, India) 1364

Preventing Packet Dropping Attack on AODV Based Routing in Mobile Ad-Hoc MANET

Neema Soliyal (G B Pant Engineering College Ghurdauri Pauri Uttarakhand, India), Harvindra Bhadauria (Uttarakhand Technical University, India) 1371

Traffic Analysis for Smart Grid Networks Using Markov Chains with Autocorrelation Function Settings

Christiane Borges Santos (Instituto Federal de Goiás, Brazil), Fabio da Silva Marques (Instituto Federal de Educação, Ciência e Tecnologia de Goiás, Brazil), Sérgio Araújo (UFG, Brazil), Joao Batista Pereira (Instituto Federal de Goias, Brazil) 1376

Parallel Context Aware Recommender System Using GPU and JCuda

Richa Singh (University of Delhi, India), Punam Bedi (University of Delhi, India) 1383

Effective Web Personalization System Based on Time and Semantic Relatedness

G. p. Sajeev (Amrita University & Govt Engineering College, India), Ramya P t (Amrita School of Engineering, India) 1390

Sequencing of Refactoring Techniques by Greedy Algorithm for Maximizing Maintainability

Sandhya Tarwani (Guru Gobind Singh Indraprastha University, India), Anuradha Chug (Guru Gobind Singh Indraprastha University, India) 1397

ELM Variants Comparison on Applications of Time Series Data Forecasting

Sachin Kumar (University of Delhi, India), Shobha Rai (University of Delhi, India), Saibal K. Pal (DRDO, India), Ram Pal Singh (DDUC, Delhi University, India) 1404

Comparative Analysis of Concentration Control for Nonlinear Continuous Stirred Tank Reactor

Dipti Tamboli (SVERI's College of Engineering, Pandharpurr, India) 1410

A Novel and Secure Methodology for Keyless Ignition and Controlling an Automobile Using Air Gestures

Sudhir Rao Rupanagudi (WorldServe Education, India), Varsha Bhat (WorldServe Education, India), Supriya R (Atria Institute of Technology, India), Riya Dubey (Atria Institute of Technology, India), Suma Sukumar (Atria Institute of Technology, India), Srabanti

Karmarkar (Atria Institute of Technology, India), Amulya K (BNMIT, India), Ankita Raman (BNMIT, India), Devika Indrani (BNMIT, India), Abhiram Srisai (BNMIT, India), Mahathy Rajagopalan (R V College of Engineering, India), Vaishnavi Venkatesh (R V College of Engineering, India), Nupur Jain (R V College of Engineering, India) 1416

ICACCI-24: Symposium on Women in Computing and Informatics (WCI-2016) - Short Papers

Detection of Fuzzy Duplicates in High Dimensional Datasets
Raksha N (Visvesvaraya Technological University, India), Raj Alankar (Visvesvaraya Technological University, India) 1423
Public Health Allergy Surveillance Using Micro-blogs
Kruti Nargund (VTU, India), Natarajan S (VTU, India) 1429
Survey on Meta Heuristic Optimization Techniques in Cloud Computing
Shishira Sr (National Institute of Technology Karnataka & National Institute of Technology Karnataka, India), Kandasamy A (National Institute of Technology Karnataka, India), Chandrasekaran K (National Institute of Technology Karnataka, India) 1434
OSEECH:Optimize Scalable Energy Efficient Clustering Hierarchy Protocol in Wireless Sensor Networks
Shiv Singh (Gbpec Pauri, India), Bhumika Gupta (Gbpec Pauri, India) 1441
Energy Efficient Protocol for Cognitive Sensor Networks Based on Particle Swarm Optimization
Anuja Rawat (G. B. P. E. C. Pauri Garhwal, India), Shashi Verma (G. B. P. E. C. Pauri Garhwal, India) 1447

ICACCI-27: Symposium on Intelligent Informatics (ISI'16)/Symposium on Advances in Applied Informatics (SAI'16)

Image Convolution Optimization Using Sparse Matrix Vector Multiplication Technique
Bipin B (Amrita University, India), Jyothisha J Nair (Amrita University, India) 1453
An Implementation and Performance Evaluation of An Improved Chaotic Image Encryption Approach
Gaytri Bakshi (KITM, India), Shelza Suri (Banasthali University, India), Ritu Vijay (Banasthali University, India) 1458
Design of a GPS-Enabled Multi-modal Multi-controlled Intelligent Spybot
Anushka Gupta (Jaypee University of Information Technology, Waknaghat, Solan, India), Shailesh Tanwar (Mukesh Patel School of Technology Management and Engineering, NMIMS, Mumbai, Maharashtra, India), Vishvander Singh (Army Institute of Technology, Pune, Maharashtra, India), Lavanya Matta (Indian Institute of Information Technology, Chittoor, Sricity, A. P., India), Vinay Kumar Mittal (Indian Institute of Technology Chittoor, Sri City, India) 1464
Evaluation of Mobile Learning in Workplace Training
Muneer Dar (National Institute of Electronics & Information Technology, Srinagar, India), Sameer Ahmad Bhat (Preparatory Year King Saud University, Saudi Arabia) 1468
Constraint Based Recipe Recommendation Using Forward Checking Algorithm
Kirti Pawar (MUMBAI & RAIT, India) 1474

Transition of Indian ICT Processes to Smart E-Services - Way Ahead
Arpit Jain Singhai (National Informatics Centre, India), Danish Faizan (NIC-INDIA, India) 1479
The Impact of Globalization on the Perception of Beauty Among South Indian Women
Rajiv Prasad (Amrita Vishwa Vidyapeetham University & Amrita School of Business, India), Lakshmi Unnikrishnan (Amrita Vishwa Vidyapeetham University, India) 1487
Effect of Hofstede's Dimensions on Skin Care Advertising At the Micro Level A Content Analysis of Olay's Indian and US Digital Ads
Parvathy Saseendran Nair (Amrita Vishwavidyapeetam, India), Chitra Ramakrishnan (Amrita Vishwa Vidyapeetham, India) 1496
An approach towards quality assessment of turmeric rhizomes using surface thermal profiles
Navreet Saini (CSIR-Central Scientific Instrumenmts Organisation, India), Amitava Das (CSIO, India) 1503
Automatic classification of turmeric rhimozes using the external morphological characteristics
Arshpreet Kaur (Punjabi University, India), Navreet Saini (Central scientific Instruments Organisation, India), Ranjit Kaur (Punjabi University, India), Amitava Das (CSIO, India) 1507
Identification of Causal Relationships Among Clinical Variables for Cancer Diagnosis Using Multi-Tenancy
Marasanapallekalle Krishna (Manipal Institute of Technology, India), Sanjay Singh (Manipal Institute of Technology, India) 1511
An Empirical Evaluation of Local Descriptors in Object Recognition
Ritu Rani (Guru Gobind Singh Indraprastha University New Delhi, India), Ravinder Kumar (HMR Institute of Technology & Management & GGS IPU, India), Amit Prakash Singh (Guru Gobind Singh Indraprastha University, India) 1517

ICACCI-28: Fourth International Symposium on Women in Computing and Informatics (WCI-2016) - Regular Papers

Video Clip Retrieval Using Local Phase Quantization
K P Uma (Mangalore University, India), B H Shekar (Mangalore University, India), Raghurama Holla, K (Mangalore University, India) 1522
Bioinspired Memory Model for HTM Face Recognition
Alex Pappachen James (Nazarbayev University & Enview R&D Labs, Kazakhstan), Olga Krestinskaya (Nazarbayev University, Kazakhstan) 1528
2L-DWTS - Steganography Technique Based on Second Level DWT
Punam Bedi (University of Delhi, India), Veenu Bhasin (University of Delhi, India), Tarun Yadav (University of Delhi, India) 1533
Clustering of Words Using Dictionary-Learnt Word Representations
Remya Menon (Amrita Vishwa Vidyapeetham, India), Gargi S (Amrita School of Engneering, India), Samili S (Amrita School of Engneering, India) 1539
Harnessing the Discriminatory Strength of Dictionaries
Remya Menon (Amrita Vishwa Vidyapeetham, India), Neethu V Kini (Amrita School Of Engineering, India), Athira Krishnan G (Amrita School Of Engineering, India) 1546

Detection of Suspicious Lesions in Mammogram Using Fuzzy C-Means Algorithm
Mukesh Kumar (Gbpec Pauri, India), Upendra Bhatt (Gbpec, India), V Thakkar (Gbpec Pauri, India), Neema Soliyal (G B Pant Engineering College Ghurdauri Pauri Uttarakhand, India) 1553
Object Detection Using Binocular Vision
Neethu S (Amrita Vishwa Vidyapeetham, India) 1558
An Automated Design of Pin-Constrained Digital Microfluidic Biochip on MEDA Architecture
Pampa Howladar (Indian Institute of Engineering Science and Technology, Shibpur, India), Pranab Roy (Indian Institute of Engineering Science and Technology, Shibpur, India), Hafizur Rahaman (Bengal Engineering and Science University, Shibpur, India) 1565
Detection and Prediction of Osteoporosis Using Impulse Response Technique and Artificial Neural Network
Tejaswini E (Amrita Vishwa Vidyapeetham, India), Vaishnavi P (Amrita Vishwa Vidyapeetham, India), Sunitha R (Amrita Vishwa Vidyapeetham, India) 1571
An Automated Tool for Generating Change Report From Open-Source Software
Ruchika Malhotra (Delhi Technological University, India), Ankita Bansal (Delhi Technological University, India), Sourabh Jajoria (Netaji Subhas Insitute of Technology, India) 1576

ICACCI-17: Sensor Networks, MANETs and VANETs/Distributed Systems (Short Papers)

Joint Routing, Rate Adaptation And Power Control for Multi-Radio Wireless Mesh Networks
Mohammed Moin Mulla (KLE Technological University, Hubli, Karnataka, India), Narayan D. G. (BVB College of Engineering and Technology, Hubli. Karnataka, India) 1583
Song Year Prediction Using Apache Spark
Prakhar Mishra (The LNM Institute Of Information Technology, India), Ratika Garg (The LNM Institute Of Information Technology, India), Akshat Kumar (The LNM Institute Of Information Technology, India), Arpan Gupta (The LNM Institute of Information Technology, India), Praveen Kumar (GRIET, India) 1590
Implementation of a Web-based Programming Tool for Distributed, Connected Arduino Systems
Manoj Nair (Amrita University, Amrita Vishwa Vidyapeetham, India), Jishnu R (Amrita University, Amrita Vishwa Vidyapeetham, India), Rakesh K M (Amrita University, Amrita Vishwa Vidyapeetham, India), Anand Ramachandran (Amrita University, India) 1595
Ensemble Learning for Network Data Stream Classification Using Similarity and Online Genetic Algorithm Classifiers
Arun Manicka Raja M (Anna University, Chennai, India), Swamynathan S (Anna University, India) 1601
Rationale Behind The Virtual Sensors and Their Applications
Atrayee Gupta (Jadavpur University, India), Nandini Mukherjee (Jadavpur University, India) 1608
A Realistic Approach for Representing and Scheduling Workflows in Cloud Computing Environment
Karuppiah Kanagaraj (MEPCO Schlenk Engineering College, India), S Swamynathan (Anna University, India) 1615
Secrecy Performance of a Dual Hop Cognitive Relay Network with an Energy Harvesting Relay

Siddharth Raghuwanshi (NIT Durgapur, India), Pranabesh Maji (National Institute of Technology, Durgapur, India), Sanjay Dhar Roy (National Institute of Technology Durgapur, India), Sumit Kundu (National Institute of Technology, Durgapur, India) 1622

Vehicular Traffic Analysis From Social Media Data

Himanshu Shekhar (B. V. B. College of Engineering and Technology, India), Shankar Setty (B. V. Bhoomaraddi College of Engineering & Technology, India), Uma Mudenagudi (B. V Bhoomaraddi College of Engineering and Technology, Hubli, India) 1628

Work in Progress: A Proposal for a Hotspot Metric to Extend the Lifetime in Wireless Sensor Network

Mayada Mustafa (University Putra Malaysia, Malaysia), Borhanuddin M Ali (Faculty of Engineering & Universiti Putra Malaysia, Malaysia), Shaiful Hashim (UPM, Malaysia), Mohd. Fadlee A. Rasid (Universiti Putra Malaysia, Malaysia) 1635

Finding Minimum Node Density for Energy-efficient In-hop Cooperative Relaying in Industrial WSNs

Debdeep Saha (RCCIIT, India), Somprakash Bandyopadhyay (Indian Institute of Management Calcutta, India) 1640

Developing and Validating Virtualized Transactional Application of Educational Institutes Using InFraMegh

Indu Arora (Panjab University, Chandigarh, India), Anu Gupta (Panjab University, India) 1647

An Approach to Signaling Cost Reduction in Proxy MIPv6 for Mobility Management

Nitul Dutta (MEF Group of Institutions, Rajkot, India), Zdzislaw Polkowski (The Lower Silesian University of Entrep and Tech, Poland), Corina Savulescu (University of Pitesti, Romania), Sunil Pathak (JK Lakshmipat University Jaipur, India) 1654

Self Power Analysing Energy Efficient Protocol (SPAEEP): An Adaptive approach

Nitin Palan (University of Poona, India), Balaji Barbadekar (Kolhapur University, India), Suhas Patil (K. B. P. College of Engineering & Polytechnic, India) 1661

A Routing Load Balanced Trajectory Design for Mobile Sink in Wireless Sensor Networks

Amar Kaswan (Indian School of Mines, India), Kumar Nitesh (Indian School of Mines, India), Prasanta Kumar Jana (Indian School of Mines, India) 1669

ICACCI-18: Security Informatics/SAI'16 (Short Papers)

Extended-HyperWall:Hardware Support for Rollback Secure Virtualization

Priya Chandran (National Institute of Technology Calicut, India), Shubham Shoundic (National Institute Of Technology Calicut, India), Payas Krishna (National Institute of Technology Calicut, India), Vinod Reddy (National Institute of Technology Calicut, India), Bodasingi Jayachandra (National Institute of Technology, India), Lakshit Pande (National Institute of Technology, Calicut, India) 1674

A Novel and Highly Secure Encryption Methodology Using a Combination of AES and Visual Cryptography

Sudhir Rao Rupanagudi (WorldServe Education, India), Varsha Bhat (WorldServe Education, India), Anushree R (KSIT, India), Kavitha Y N (KSIT, India), Meghana R (KSIT, India), Arpitha Srinath (KSIT, India), Pooja J (Sapthagiri Institute of Technology, India), Ramya R Pai (Sapthagiri Institute of Technology, India), Roopashree M (Sapthagiri Institute of Technology, India), Sandhya Ramesh (Sapthagiri Institute of Technology, India), Anil C (Jyothy Institute of Technology, India), Anuradha S (Jyothy Institute of Technology, India), Arpita V Murthy (Jyothy Institute of Technology, India), Sridevi S (Jyothy Institute of Technology, India) 1682

Mathematical Analysis of Novel Compression Algorithm used in OFDM for security
Alka Sawlikar (Nagpur University & Rajiv Gandhi College of Engineeringg Research and Technology, India), Zafar Khan (Rajiv Gandhi College of Engineering Research and Technology, India), Sudhir Akojwar (Senior Member IEEE, India) 1689
Multi-Factor Authentication Using Threshold Cryptography
Vishnu Venukumar (National Institute of Technology Calicut, India), Vinod Pathari (National Institute of Technology Calicut, India) 1694
Multiple Integer Packing for Optimizing Partial Homomorphic Encrypted Databases
Mythily AS (National Institute of Technology, Calicut, India), Vinod Pathari (National Institute of Technology Calicut, India) 1699
Ecosystem of Spamming on Twitter: Analysis of Spam Reporters and Spam Reportees
Pooja Sinha (IGDTUW, India), Oshin Maini (Indira Gandhi Delhi Technical University for Women, India), Gunjan Malik (Indira Gandhi Delhi Technical University for Women, India), Rishabh Kaushal (Indira Gandhi Delhi Technical University for Women, India) 1705
Design, Implementation and Security Analysis of Bluetooth Pairing Protocol in NS2
Samta Gajbhiye (CSVTU Bhilai, India), Sanjeev Karmakar (CSVTU Bhilai, India), Monisha Sharma (CSVTU Bhilai, India), Sanjay Sharma (CSVTU, Bhilai, India) 1711
Experimental Analysis of DDoS Attack and It's Detection in Eucalyptus Private Cloud Platform
Ashaq Hussain (NIELIT SRINAGAR, India), Beenish Habib (NIT SRINAGAR, India), Farida Khursheed (N I T SRINAGAR, India), M. Tariq Banday (University of Kashmir, India) 1718
Lightweight Security Algorithm for Low Power IoT Devices
Tarun Goyal (Malaviya National Institute of Technology, India), Vineet Sahula (MNIT Jaipur, India) 1725
Feature Selection for Novel Fingerprint Dynamics Biometric Technique Based on PCA
Ishan Bhardwaj (National Institute of Technology Raipur, India), Narendra Londhe (NIT Raipur, India), Sunil Kumar Kopparapu (Tata Consultancy Services, India) 1730
Energy Efficient Multipath Routing for Wireless Sensor Networks: A Genetic Algorithm Approach
Suneet Gupta (ABESEC, India), Pratyay Kuila (National Institute of Technology Sikkim, India), Prasanta Kumar Jana (Indian School of Mines, India) 1735

ICACCI-20: Embedded Systems/Computer Architecture and VLSI/Adaptive Systems/ICAIS'16 (Short Papers)

A Synthesis Approach for ESOP-based Reversible Circuit
Chandan Bandyopadhyay (Indian Institute of Engineering Science and Technology (IIEST)Shibpur, India), Shalini Parekh (Indian Institute of Engineering Science and Technology (IIEST)Shibpur, India), Hafizur Rahaman (Bengal Engineering and Science University, Shibpur, India) 1741
Antenna Selection and Transmit Beamforming in MIMO Systems Using Delayed Channel Information At the Transmitter
Yogesh N Trivedi (Nirma University, India) 1747

Design and Performance Analysis of Quasi-Asynchronous SC-FDMA-CDMA System Using Quasi Complementary Sequence Sets
Shikha Singh (Indian Institute of Technology Patna, India), Avik R Adhikary (Indian Institute of Technology Patna, India), Abdus Samad (Indian Institute of Technology Patna, India), Sudhan Majhi (Indian Institute of Technology, India) 1752
Blind Symbol Rate Estimation by Exploiting Cyclostationary Features in Wavelet Domain
Sushant Kumar (IIIT Delhi, India), Vivek A Bohara (Indraprastha Institute of Information Technology, Delhi (IIIT-Delhi), India), Sumit Jagdish Darak (IIIT-Delhi, India) 1757
Effortless Exchange of Personal Health Records Using Near Field Communication
Sujadevi Vijaya Gangadharan (Amrita University, India), Twintu Kumar (Amrita University, India), Arunjith A S (Amrita University, India), Hrudya P (Research Associate at Amrita Center for Cyber Security, India), Prabaharan Poornachandran (Amrita University, India) 1764
Mitigation of Negative Delay Via Half CP Shift
Ajay Sharma (Parallel Wireless, India), Somasekhar Pemmasani (Parallel Wireless, India) 1770
Design of CPW to CPS Printed Balun for Wideband Applications
Darshan Shah (Universal, India), Ravish Singh (Thakur Educational Trust, India), Shailendra Shastri (Thakur College of Engineering, India) 1774
Predicting Performance of Applications on Multicore Platforms
Priti Ranadive (KPIT Technologies Ltd. India, Principal Scientist, India), Vinay G Vaidya (KPIT Technologies Ltd., India) 1778
Soft Sensor for Inferential Control in Non-Isothermal CSTR
Sucheta Singh (NSIT, DELHI, India), Vijander Singh (Netaji subhas institute of Technology, Delhi university, India), Jyoti Yadav (Delhi University & Netaji Subhas Institute of Technology, India), Asha Rani (NSIT University of Delhi NEW Delhi, India) 1785
Lab VIEW Based Four DoF Robotic Arm
Sagar Giri (Savitribai Phule Pune University, India), A Ravishankar (Savitribai Phule Pune University, India), Rahul Shivaji Pol (Pune University & VIIT Pune, India), V Ghode (Savitribai Phule Pune University, India) 1791
Performance Evaluation of Fuzzy Logic Controlled Voltage Source Inverter Based Unified Power Quality Conditioner for Mitigation of Voltage and Current Harmonics
Anupam Kumar (NIT Srinagar, India), Abdul Bhat (National Institute Of Technology, Srinagar, India), Shubhendra Pratap (NIT Srinagar, India) 1799
Outage Analysis of Two-way Cooperative Spectrum Sharing Protocol under Nakagami-m Fading
Saloni Mittal (Indraprastha Institute of Technology, Delhi, India), Vivek A Bohara (Indraprastha Institute of Information Technology, Delhi (IIIT-Delhi), India) 1805
Performance Evaluation of Circuit Level Approaches for Radiation Hardened Primitive Gates
Vaibhav Sharma (Maulana Azad National Institute of Technology, India), Arvind Rajawat (Maulana Azad National Institute of Technology, India) 1811
Human Energy Interacting Interface (HEII) (Interface to Transform Environmental Energy Into Human Acquired Energy)
Anil Kumar Dubey (Government Engineering College Ajmer, India), Mohan Kolhe (University of Agder, Norway), Vikash Singh (I G National Tribal University Amarkantak, MP, India) 1816

Experimental Study of a Novel Variant of Fiduccia Mattheyses(FM) Partitioning Algorithm
Mitali Sinha (Veer Surendra Sai University of Technology, Burla, India), Suchismita Pattanaik (Sambalpur University Institute of Information Technology, Burla, Odisha, India), Rakesh Mohanty (Veer Surendra Sai University of Technology Burla, India), Prachi Tripathy (Veer Surendra Sai University of Technology Burla, India) 1820
Removal of Random-Valued Impulse Noise Using Detection Filters and Group Sparse Modeling
Divya Velayudhan (SCT College of Engineering, India), Salim Paul (SCT College of Engineering, India) 1826

ICACCI-21: Artificial Intelligence and Machine Learning/Data Engineering/Biocomputing (Short Papers)

Multi-Agent Framework for Automatic Deployment and State Restoration in Iterative Software Development Process
Ramesh Guntha (Amrita Center for Wireless Networks and Applications, Amrita Vishwa Vidyapeetham University, India), Balaji Hariharan (Amrita University, India), Venkat Rangan (Amrita University, India) 1833
Predictive Maintenance for Wind Turbine Diagnostics using Vibration Signal Analysis based on Collaborative Recommendation Approach
Gopi Krishna Durbhaka (Research Scholar, India), Barani S. (Sathyabama University, Chennai, India) 1839
EDA Wavelet Features as Social Anxiety Disorder (SAD) Estimator in Adolescent Females
Vivek Sharma (PEC University of Technology, Chandigarh, India), Neelam Prakash (PEC University of Technology, Chandigarh, India), Parveen Kalra (PEC University of Technology, India) 1843
Evaluating Student Performance Using Fuzzy Inference System in Fuzzy ITS
Pooja Asopa (Banasthali University, India), Sneha Asopa (Banasthali University, India), Nisheeth Joshi (Banasthali University, India), Iti Mathur (Banasthali University, India) 1847
Feasibility Assessment of Neural Network Based Expert System Prototype for Evaluating Motivational Strategies
Viral Nagori (GLS Institute of Computer Technology (MCA) & GLS University, India), Bhushan H Trivedi (GLS Institute of Computer Technology (MCA), GLS University, India) 1852
Altruistic Decision Making Approach to Resolve the Tragedy of the Commons
Avadh Kishor (Indian Institute of Technology Roorkee, India), Tarun Garg (Indian Institute of Technology Roorkee, India), Rajdeep Niyogi (Indian Institute of Technology Roorkee, India) 1858
Automatic Expression Recognition and Expertise Prediction in Bharatnatyam
Pooja Venkatesh (International Institute of Information Technology - Bangalore, India), Dinesh Babu Jayagopi (IIIT Bangalore, India) 1864
A Fast Chromatic Correlation Clustering Algorithm
Jaishri Gothania (Rajasthan Technical University, India) 1870
A Novel K-Means Based Clustering Algorithm for Big Data
Ankita Sinha (Indian School of Mines, India), Prasanta Kumar Jana (Indian School of Mines, India) 1875

Cognitive State Classification Using Clustering-Classifier Hybrid Method
Siva Ramakrishna Jeevakala (M S Ramaiah University of Applied Sciences, India), Hariharan Ramasangu (M. S. Ramaiah University of Applied Sciences, India) 1880
Measuring Stock Price and Trading Volume Causality Among Nifty50 Stocks the Toda Yamamoto Method
Abinaya P (Amrita School of Business, India), Varsha Suresh Kumar (Amrita University, India), Balasubramanian P (Amrita School of Business, Amrita University, India), Vijay Krishna Menon (Amrita Vishwa Vidyapeetham, India) 1886
Analysis of Fluidized Catalytic Cracking Process Using Fuzzy Logic System
Aparna Nair (K J Somaiya College of Engineering, India), Rajashree Daryapurkar (KJSCE, Vidyavihar, India) 1891
A Neural Network Based Breast Cancer Prognosis Model with PCA Processed Features
Smita Jhajharia (Banasthali University, Banasthali & Delhi Technological University, Delhi, India), Harish Varshney (Malaviya National Institute of Technology, India), Seema Verma (University Banasthali Vidyapith, India), Rajesh Kumar (Malaviya National Institute of Technology, India) 1896
Accelerative Gravitational Search Algorithm
Aditi Gupta (Rajasthan Technical University, India), Nirmala Sharma (Rajasthan Technical University, India), Harish Sharma (Rajasthan Technical University, Kota, India) 1902

ICACCI-23: Signal/Image/video/speech Processing/Computer Vision; and Pattern Recognition & Analysis (Short Papers)

Efficient Signal Processing Algorithms for Radar and Telecommunication Systems
Rostislav Sokolov (Ural Federal University, Russia), Denis Dolmatov (Ural Federal University, Russia), Renat Abdullin (Ural Federal University, Russia) 1908
A Quantum Parallel Bi-Directional Self-Organizing Neural Network (QPBDSONN) Architecture for Extraction of Pure Color Objects From Noisy Background
Debanjan Konar (Sikkim Manipal Institute of Technology & Sikkim Manipal University, India), Udit Chakraborty (Sikkim Manipal Institute of Technology, India), Siddhartha Bhattacharyya (RCC Institute of Information Technology, India), Tapan Gandhi (Indian Institute of Technology Delhi, India), Bijaya Panigrahi (Indian Institute of Technology - Delhi, India) 1912
Detection of Tumor in Brain MRI Using Fuzzy Feature Selection and Support Vector Machine
Amiya Halder (St. Thomas College of Engineering and Technology, India), Oyendrila Dobe (St. Thomas College of Engineering and Technology, India) 1919
An Improved Nucleus Segmentation for Cervical Cell Images Using FCM Clustering and BPNN
Bharti Sharma (Punjabi University Regional Center for IT & Mgmt., India), Kamaljeet Mangat (Punjabi University Patiala, India) 1924
Recognition of Handwritten Devanagiri Numerals by Graph Representation and SVM
Mohammad Idrees Bhat (University of Mysore & University of Mysore, India), Sharada B. (University of Mysore, India) 1930

Similar Handwritten Devanagari Character Recognition by Critical Region Estimation
Mahesh Jangid (Manipal University Jaipur, India), Sumit Srivastava (Manipal University Jaipur, India) 1936
Soft Proofing of Images Using Bacteria Foraging Optimization of Color Gamuts
Nayan Malpani (Rajasthan Technical University, India), Roshan Jain (RCEW Jaipur, India), Saurabh Maheshwari (Govt. Women Engineering College Ajmer & Student Member IEEE, India) 1940
A Noncontact Vital Sign Monitoring Algorithm Using a Camera
Anusree R (Amrita Vishwa Vidyapeetham, India), Ranjith R (Amrita Vishwa Vidyapeetham, India), Ramachandran K I (Amrita Vishwa Vidyapeetham, India) 1947
Multilevel RDH Scheme Using Image Interpolation
Geetha Ramalingam (VIT University & VIT University, India), S Geetha (VIT University Chennai Campus, India) 1952
Satellite Image Resolution Enhancement Using DTCWT and DTCWT Based Fusion
Vineet Naik (V. E. S. Institute of Technology, India), Saylee Gharge (Guide, India) 1957
Using FPGA-SoC Interface for Low Cost IoT Based Image Processing
Shivank Dhote (Vidyalankar Institute Of Technology, India), Pranav Charjan (Vidyalankar Institute of Technology, Mumbai, India), Aditya Phansekar (Vidyalankar Institute of Technology, Mumbai, India), Aniket Hegde (Vidyalankar Institute of Technology, Mumbai, India), Jonathan Joshi (Vanmat Technologies. Pvt. Ltd, India), Sangeeta Joshi (Vidyalankar Institute of Technology, India) 1963
Image Retrieval Using Extended Bag-of-Visual-Words
Nandita Bhattacharya (Indian Institute of Engineering Science and Technology Shibpur, India), Jaya Sil (Indian Institute of Engineering Science and Technology, Shibpur, India) 1969
An Integrated approach of Radon Transform and Blockwise Binary Pattern for Shape Representation and Classification
Bharathi Pilar (Mangalore University & University College Mangalore, India), B H Shekar (Mangalore University, India) 1976
A Segmented-Mean Feature Extraction Method for Glove-based System to Enhance Physiotherapy for Accurate and Speedy Recuperation of Limbs
Andrews Samraj (Mahendra Engineering College, India), Kalvina Rajendran (Enability Foundation for Rehabilitation, India, India), Ramaswamy Palaniappan (University of Kent, United Kingdom) 1983

ICACCI-29: Sensor Networks, MANETs and VANETs/Distributed Systems (Short Papers)

Web Service Selection with Global Constraints Using Modified Gray Wolf Optimizer
Manik Chandra (Indian Institute of Technology Roorkee, India), Ashutosh Agrawal (Indian Institute of Technology Roorkee, India), Avadh Kishor (Indian Institute of Technology Roorkee, India), Rajdeep Niyogi (Indian Institute of Technology Roorkee, India) 1989
Physical Access Control Based on Biometrics and GSM
Diptadeep Addy (St. Thomas' College of Engineering & Technology, Kolkata, India), Poulami Bala (St. Thomas' College of Engineering & Technology, Kolkata, India) 1995

Network Condition and Application Adaptive Fitness Based Vehicular Intelligent Routing Protocol
Rajesh Purkait (Indian School Of Mines, India) 2002
Throughput and Outage of a Wireless Energy Harvesting Based Cognitive Relay Network
Binod Prasad (NIT DURGAPUR, India), Sankararao Adduru U G (NIT Durgapur, India), Sanjay Dhar Roy (National Institute of Technology Durgapur, India), Sumit Kundu (National Institute of Technology, Durgapur, India) 2009
Towards Automated Real-Time Detection of Misinformation on Twitter
Suchita Jain (IGDTUW, India), Vanya Sharma (IGDTUW, India), Rishabh Kaushal (Indira Gandhi Delhi Technical University for Women, India) 2015
Performance Analysis of Cooperative Communication in Wireless Sensor Network
Ankit Kumar Jain (National Institute of Technology, Kurukshetra, India), Kaushlendra Pandey (Central Institute of Technology Kokrajhar, India), Soumitra Mehrotra (Jaypee University of Information Technology, India) 2021
Automated Classification of Security Requirements
Rajni Jindal (Delhi Technological University, India), Ruchika Malhotra (Delhi Technological University, India), Abha Jain (Delhi Technological University, India) 2027
Feedback-based Adaptive Speedy Transmission (FAST) Control Protocol to Improve the Performance of TCP Over Ad-Hoc Networks
Aniket Deshpande (Mewar University, India), Ashok Kaushal (Mewar University, India) 2034

ICACCI-30: Symposium on Women in Computing and Informatics (WCI-2016) - Short papers

Abnormal Activity Detection for Bank ATM Surveillance
Rajvi Rajesh Nar (The LNM Institute of Information Technology, India), Alisha Singal (The LNM Institute of InformationTechnology, India), Praveen Kumar (GRIET, India) 2042
Energy Efficient Approach to Send Data in Cognitive Radio Wireless Sensor Networks(CRSN)
Ashish Semwal (GBPEC, PAURI & Uttarakhand, India) 2047
Robotics and Programming: Attracting Girls to Technology
Christiane Borges Santos (Instituto Federal de Goiás, Brazil), Deller Ferreira (Federal University of Goias, Brazil), Maria Carolina Borim do Nascimento R Souza (MNT, Brazil), Andressa Rodrigues Martins (MNT, Brazil) 2052
Image Hashing by SDQ-CSLBP
Varsha Patil (University of Mumbai & SIES GST, India), Tanuja K. Sarode (Thadomal Shahani Engineering College, India) 2057
Statistical Feature Extraction for Small Infrared Target
Neha Pokhriyal (Aicte, India), Shashikant Verma (Aicte, India) 2064

ICACCI-31: NLP'16/Natural Language Processing and Machine Translation (Short Papers)

Use of Fuzzy Logic and WordNet for Improving Performance of Extractive Automatic Text Summarization

Jyoti Yadav (Malaviya National Institute of Technology, Jaipur, India), Yogesh Kumar Meena (Malaviya National Institute of Technology, India) 2071

Online Recognition of Malayalam Handwritten Scripts - A Comparison Using KNN, MLP and SVM

KB Baiju (University of Calicut, India), Sabeerath K (University of Calicut, India) 2078

Ranking Scholarly Work Based on Author Reputation

Kajol Kardam (IGDTUW, India), Akshita Kejriwal (IGDTUW, India), Kirti Sharma (IGDTUW, India), Rishabh Kaushal (Indira Gandhi Delhi Technical University for Women, India) 2084

Bayesian Learner Based Language Learnability Analysis of Hindi

Sandeep Saini (The LNM Institute of Information Technology, India), Nitin Gupta (The LNM Institute of Information Technology, Jaipur, India), Shivin Bhogal (The LNM Institute of Information Technology, Jaipur, India), Shubham Sharma (The LNM Institute of Information Technology, Jaipur, India), Vineet Sahula (MNIT Jaipur, India) 2089

Extraction of Syllabically Rich and Balanced Sentences for Tigrigna Language

Hafte Abera (Ethiopia, Addis Ababa University, Ethiopia), Climent Nadeu (Universitat Politècnica de Catalunya, Barcelona, Spain, Spain), Sebsibe H/Mariam (Addis Ababa University Addis Ababa Ethiopia, Ethiopia) 2094

A Comparative Study of Noise Reduction Techniques for Automatic Speech Recognition Systems

Kanika Garg (Jawaharlal Nehru University, India), Goonjan Jain (Jawaharlal Nehru University, India) 2098

Optimizing Feature Extraction Techniques Constituting Phone Based Modelling on Connected Words for Punjabi Automatic Speech Recognition

Arshpreet Kaur Chauhan (Chitkara University, Punjab, India) 2104

An Efficient English to Hindi Machine Translation System Using Hybrid Mechanism

Jayashree Nair (Amrita School of Engineering, India), Amrutha K (Amrita Vishwa Vidyapeetham Amritapuri, India), Deetha R (Amrita Vishwa Vidyapeetham Amritapuri, India) 2109

Named Entity Recognition in Assamese: A Hybrid Approach

Padmaja Sharma (Tezpur University, Tezpur, Assam, India) 2114

ICACCI-32: Embedded Systems/Computer Architecture and VLSI/Adaptive Systems/ICAIS'16 (Short Papers)

Low Power and Temperature Compatible FinFET Based Full Adder Circuit with Optimised Area

Jiwanjot Kahlon (Amity University, Uttar Pradesh, India), Pradeep Kumar (Amity University Uttar Pradesh, India), Anubhav Garg (Amity University, India), Ashutosh Gupta (Amity University Uttar Pradesh, India) 2121

Multi-objective Optimization Domino Techniques for VLSI Circuit

Jitesh Ramdas Shinde (Priyadarshini J L College of Engineering & TMVLSI, India), Suresh Salankar (G H Raisoni College of

Engineering Nagpur, India), Shilpa Shinde (Researcher, India) 2126
Electro-Thermo-Mechanical FE Simulations of OFHC Cu Material for Electric Contact with DC/AC Currents
Atul S Takalkar (VIT University, India), Lenin babu M C (VIT University, India) 2131
Characterization of Valveless Micropump for Drug Delivery by Using Piezoelectric Effect
Atul S Takalkar (VIT University, India), Lenin babu M C (VIT University, India) 2138
Simulation & Design of Maximum Current Point Tracking Controller for 2 MHz RF H- Source
Priya Khachane (MPSTME NMIMS & RRCAT, India), Dharmraj Ghodke (Scientific Officer, India), Vinod Senecha (Scientific Officer, India), Vaishali Kulkarni (NMIMS University, India), Satish Joshi (O S, India) 2145
Multi-Agent Trajectory Control Under Faulty Leader: Energy-Level Based Leader Election Under Constant Velocity
B. K. Swathi Prasad (M. S. Ramaiah University of Applied Sciences, India), Aditya G Manjunath (M. S. Ramaiah University of Applied Sciences, India), Hariharan Ramasangu (M. S. Ramaiah University of Applied Sciences, India) 2151
System Analysis for Optical Inter-Satellite Link with Varied Parameter and Pre-Amplification
Guddan Kumari (Government women engineering college ajmer, India), Chetan Selwal (Government Women Engineering College Ajmer, India) 2157
Electrocardiogram Waveform Denoising Using a Modified Multi-Resolution Filtered-X LMS Algorithm Based on Discrete Wavelet Transform
Roop Kanwal (Punjabi University Patiala, India), Sangeet Pal Kaur (Punjabi University Patiala, India) 2162
Bluetooth RSSI Based Collision Avoidance in Multi-robot Environment
Lijina P (Amrita Vishwa Vidyapeetham, Amrita School of Engineering, India), Nippun Kumaar Aa (Amrita Vishwa Vidyapeetham, Amrita School of Engineering, India) 2168
A Suboptimal Scheduling Scheme for MIMO Broadcast Channels with Quantized SINR
Ashok Panda (International Institute of Information Technology, Bhubaneswar, India), Swadhin Mishra (in National Institute of Science and Technology, Berhampore, India), Sasanka Sekhar Dash (Amdocs Development Center, India), Neha Bansal (NIST, Berhampur, India) 2175
Design and Simulation of Microstage Having PZT MEMS Actuator for 3D Movement
Kiran Junagal (Rajasthan Technical University Kota Rajasthan India, India), R. s. Meena (UCE, KOTA, India) 2180
An Analytical Model for a Resource Constrained QoS Guaranteed SINR Based CAC Scheme for LTE BWA Het-Nets
Arijeet Ghosh (Jadavpur University, India), Iti Misra (Jadavpur University, India) 2186
Functional Flow Diagram(FFD): Semantics for Evolving Software
Vaishali Chourey (Medicaps Institute of Technology and Management, India), Meena Sharma (IET - DAVV Instituute of Engineering & Technology, DAVV, Indore India, India) 2193

ICACCI-33: Signal/Image/video/speech Processing/Computer Vision; and Pattern Recognition & Analysis (Short Papers)

Human Face Detection and Recognition in Videos

Swapnil Tathe (Sinhgad College of Engineering, Pune, India), Abhilasha Sandipan Narote (Smt. Kashibai NAvale College Of Engineering, University of Pune, India), Sandipann Pralhad Narote (Government Residence Women Polytechnic, Tasgaon, Sangli, India) 2200

Optimistic Bilateral MAP-MBD Based Color Restoration Using GA

Manavjot Dhaliwal (Guru Nanak Dev University, India) 2206

Optimized Multi-Layered Unequal Error Protection of SPIHT Coded Images Using 64-HQAM

Anam Mobin (Aligarh Muslim University, India), Athar Ali Moinuddin (Aligarh Muslim University, India), Ekram Khan (Aligarh Muslim University, India), Mirza S. Beg (Aligarh Muslim University, India) 2213

Cascaded Speech Enhancement Technique in Highly Nonstationary Noise Environment

Deeleia S (Visvesvaraya Technological University & Bangalore Institute of Technology, India), J C Narayana Swamy (Bangalore Institute of Technology, India), K D N V S Prasad (M-(SRS), CRL, Bharat Electronics Limited, Bangalore, India), D Seshachalam (BMS College of Engineering, India) 2219

Use of OBIA for Extraction of Cadastral Parcels

Ganesh Khadanga (Indian Institute of Technology, Roorkee, India), Kamal Jain (Indian Institute of Technology, Roorkee, India), Suresh Merugu (Indian Institute of Technology, Roorkee & Indian Institute of Technology, Roorkee, India) 2226

Modeling Basal Ganglia Microcircuits Using Spiking Neurons

Chaitanya Medini (Amrita Vishwa Vidyapeetham (Amrita University), India), Anjitha Thekkekuriyadi (Amrita Vishwa Vidyapeetham, Amrita University, India), Surya Thayyilekandi (Amrita Vishwa Vidyapeetham, Amrita University, India), Manjusha Nair (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, India), Bipin Nair (Amrita Vishwa Vidyapeetham (Amrita University), India), Shyam Diwakar (Amrita Vishwa Vidyapeetham (Amrita University), India) 2231

Performance Improvement in HEVC Using Contrast Sensitivity Function

Sini Simon M (NIT Calicut, India), Abhilash Antony (National Institute of Technology Calicut, India), Sreelekha G (National Institute Of Technology, India). 2237

Shot Boundary Detection Using Correlation Based Spectral Residual Saliency Map

B H Shekar (Mangalore University, India), K P Uma (Mangalore University, India), Raghurama Holla, K (Mangalore University, India) 2242

ICACCI-08: Poster Session I

Analysis of Nutritional Deficiency in Citrus Species Tree Leaf Using Image Processing
Chitra Anil Dhawale (Amravati University, India), Sanjay Misra (Suite 11, Covenant University & Covenant University, Nigeria), Sonika Thakur (S. G. B. Amravati University, India), Navin Dattatraya Jambhekar (SGB Amravati University Amravati & S. S. S. K. R. Innani Mahavidyalaya Karanja Lad, India) 2248
Factors Affecting the Consumer Preference of Non-Packaged Non-Branded Rice in South India
Rajiv Prasad (Amrita Vishwa Vidyapeetham University & Amrita School of Business, India), Umesh Sivasubramanian (Amrita Vishwa Vidyapeetham University, India) 2253
Internal crack detection in kidney bean seeds using X-ray imaging technique
Surbhi Sood (National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh & Panjab University, Chandigarh, India), Shveta Mahajan (AcSIR, CSIR-CSIO, India), Amit Doegar (National Institute of Teachers Training and Research, India), Amitava Das (CSIO, India) 2258
A Planning Based Approach For Satisfying User Request in Context Aware Settings
Sujata Swain (Indian Institute of Technology Roorkee, India), Rajdeep Niyogi (Indian Institute of Technology Roorkee, India) 2262
Named Entity Recognition and Classification for Gujarati Language
Komil Vora (V. V. P Engineering College, India), Avani Vasant (Babaria Institute of Technology & Science, India), Rachit Adhvaryu (Gujarat Technological University, India) 2269
An automated system for measuring hematocrit level of human blood from total RBC count
Ratnadeep Dey (Jadavpur University, India), Kaushiki Roy (Jadavpur University, India), Debotosh Bhattacharjee (Jadavpur University, India), Mita Nasipuri (Jadavpur University, India), Pramit Ghosh (RCC Institute of Information Technology, India) 2273
Summarization of Customer Reviews for a Product on a website using Natural Language Processing
Akkamahadevi Hanni (B V Bhoomaraddi College of Engineering and Technology, India), Mayur Patil (Tesco Bengaluru, India), Priyadarshini M Patil (BVB College of Engineering & Technology, India) 2280
Distributed threshold k-means clustering for privacy preserving data mining
Vadlana Baby (VNR VIGNANA JYOTHI INSTITUTE OF ENGG &TECH, India) 2286
A Survey on Extracting Frequent Subgraphs
Susanna Thomas (Amrita School of Engineering, Amritapuri, Amrita Vishwa Vidyapeetham, Amrita University, India), Jyothisha J Nair (Amrita University, India) 2290
Internet of Things: A Survery Related to Various Recent Architectures and Platforms Available
Sharwari Solapure (Walchand College of Engineering, India), Harish Kenchannavar (Gogte Institute of Technology & Visveswaraya Technological University, India) 2296
Customizable Holter Monitor Using Off-The-Shelf Components
Neena Goveas (BITS Pilani K K Birla Goa Campus, India), Sreekesh S (BITS Pilani K K Birla Goa Campus, India), Abhimanyu Zala (BITS Pilani K K Birla Goa Campus, India), Keerthi Chavan G (BITS PILANI & Goa Campus, India) 2302

DEPTA: An Efficient Technique for Web Data Extraction and Alignment
Rahull Lokhande (SRTMU Nanded & SGGSIE&T NANDED, India) 2307
Usage of Lowpass Filters for Miniaturization of Microstrip Branch-Line Hybrid Couplers
Denis Letavin (Ural Federal University, Russia), Yury E Mitelman (Ural Federal University, Russia), Victor Chechetkin (Ural Federal University, Russia) 2311
Miniature Microwave Bandpass Filter with Two Circular Spiral Resonators
Denis Letavin (Ural Federal University, Russia), Victor Chechetkin (Ural Federal University, Russia) 2315
Statistical Analysis of Load Demand Distribution At Banaras Hindu University, India
Manish Kumar (Indian Institute of Technology (BHU), Varanasi, India), Cherian Samuel (Indian Institute of Technology (BHU), Varanasi, India) 2318
Allocating Resources in Cloud Computing When Users Have Strict Preferences
Anjan Bandyopadhyay (NIT DURGAPUR, India), Sajal Mukhopadhyay (NIT DURGAPUR, India), Uttam Ganguly (Mallabhum Institute of Technology, India) 2324
Identification of Escalations During Product Maintenance
Shivam Dhar (PES Institute of Technology, India), Pooja Tata (PES Institute Of Technology, India), Sachit Nayak (PES Institute of Technology, India), Subramaniam Kalambur (PES University, India), Dinkar Sitaram (Pesit, India), Atanu Dasgupta (Hewlett Packard Enterprise, India) 2329
A Framework to Identify Influencers in Signed Social Networks
Vanita Jaitly (Chitkara University, India), Pradeep Chowriappa (Louisiana Tech University, USA), Sumeet Dua (Lousiana Tech University, USA) 2335
Blind and Adaptive Reconstruction Approach for Non-Uniformly Sampled Wideband Signal
Himani Joshi (IIIT-Delhi, India), Sumit Jagdish Darak (IIIT-Delhi, India), Yves Louet (CentraleSupelec, France) 2341
RFID-Cloud Smart Cart System
Alex Pappachen James (Nazarbayev University & Enview R&D Labs, Kazakhstan), Yerlan Berdaliyev (Nazarbayev University, Kazakhstan) 2346
A Real Time Speech to Text Conversion System Using Bidirectional Kalman Filter in Matlab
Neha Sharma (Chandigarh University Gharuan, Mohali, India), Shipra Sardana (Chandigarh University Gharuan, Mohali, India) 2353
Electrooculogram-based Virtual Reality Game Control Using Blink Detection and Gaze Calibration
Devender Kumar (IIT Kanpur & IIT Kanpur, India), Amit Sharma (IIT Kanpur, India) 2358
Emotion Recognition on the Basis of Audio Signal Using Naive Bayes Classifier
Sagar Bhakre (Vishvakarma Institute of Information Technology pune, India), Arti Bang (University of Pune, India) 2363
Gesture recognition based relative intensity profiler for different light sources
Sabarna Choudhury (St. Thomas' College of Engineering and Technology, Kolkata, India), Shreyasi Bandyopadhyay (St. Thomas' College of Engineering and Technology, Kolkata, India), Kanik Palodhi (University of Calcutta, India) 2368
Improved GA using population Reduction for Load Balancing in Cloud computing

Ronakkumar R Patel (Sardar Pate College of Engineering & Gujarat Technological University, India), Swachilkumar Patel (Sardar Patel College of Engineering, India, India), Dhaval Patel (Sardar Patel College of Engineering, India), Tushar T Desai (Parul Polytechnic Institute, India) 2372
Image Enhancement of Ultrasound Images using Multifarious Denoising Filters and GA
Prabhpreet Kaur (Gndu, India), Gurvinder Singh (G N D U, India), Parminder Kaur (Guru Nanak Dev University, Amritsar, India) 2375
Unmanned Aerial Vehicle based Bomb Detection
Jasmine Priyadarsini (VIT University, Vellore, INDIA, India) 2385

Poster Session II

A study of peak to average power ratio for different companding techniques in VLC-OFDM system
Arushi Singh (Rajiv Gandhi Prodyogiki Vishwavidyalaya, Bhopal, India), Anjana Jain (Shri. G. S. Institute of Technology & Science, India), Prakash Vyavahare (S G S Institute of Technology and Science, India) 2390
Need of Integration of Second Generation Wavelets in Medical Image Compression
Harshal Gosavi (Vishwakarma Institute of Information Technology, Pune, India), Rajendra Talware (Vishwakarma Institute of Information Technology, Pune, India) 2394
Low Power Circuit Techniques for Optimizing Power in High Speed SRAM
Navneet Kaur Saini (IIT DELHI & Solid State Physics Laboratory under DRDO, India), Aniruddha Gupta (IIT DELHI & NXP Semiconductors, India), Ravija Prashar (IIT DELHI, India), Parul Gupta (IIT DELHI, India) 2399
Alarm Notification to Tower Monitoring System in oneM2M Based IOT Networks
Pankaj Kumar Dalela (C-DOT, India), Arun Yadav (C-DOT, India), Smriti Sachdev (C-DOT, India), Saurabh Basu (Research Engineer, India), Anurag Yadav (C-DOT, India), Vipin Tyagi (C-DOT, India) 2405
Robust Features for Spoofing Detection
Sathya Ashok (Amrita Vishwa Vidyapeetham, India), Swetha Jayaprakash (Amrita Vishwa Vidyapeetham, India), Arun Das K (Amrita Vishwa Vidyapeetham, India), Kuruvachan K George (Amrita Vishwa Vidyapeetham, India), Santhosh C Kumar (Amrita Vishwa Vidyapeetham, India), Aravinth J (Amrita Vishwa Vidyapeetham, India) 2410
Improving K-Means Through Better Initialization and Normalization
Akanksha Choudhary (Gurukul Institute of Engineering and Technology, Kota, India), Prashant Sharma (Gurukul Institute of Engineering and Technology, Kota, India), Manoj Singh (Gurukul Institute of Engineering and Technology, India) 2415
Discrete Event System Framework for Analysis and Modeling of Job Shop Scheduling System
Om Shukla (Malaviya National Institute of Technology Jaipur, Rajasthan, India), Sujil A (MNIT JAIPUR, India), Gunjan Soni (Malaviya National Institute of Technology Jaipur, Rajasthan, India), Rajesh Kumar (Malaviya National Institute of Technology, India) 2420
Facial Recognition Using Discrete ABC
Akshay Kallianpur (MSRIT, India), Aditya Kalyani (MSRIT, India), Subramanya Naligay (MSRIT, India), Jagadish S Kallimani

(Associate Professor, Department of Computer Science and Engineering, M S Ramaiah Institute of Technology, Bangalore, India) 2425
Best Offer Recommendation Service
Kiran Javkar (Samsung R&D Institute India - Bangalore, India), Siddharth Vora (Samsung R&D Institute India - Bangalore, India), Joy Bose (Samsung R&D Institute India, Bangalore, India), Amit Rodge (Samsung R&D Institute India - Bangalore, India), Hitesh Sharma (Samsung R&D Institute India - Bangalore, India) 2430
Classification of Pulmonary Crackles and Pleural Friction Rubs Using MFCC Statistical Parameters
Sibghatullah Khan (Babasaheb Naik College of Engineering PUSAD & Sant Gadge Baba Amravati University Amravati, India), Vasif Ahmed (Babasaheb Naik College of Engg., Pusad, India) 2437
Intelligent Imputation Technique for Missing Values
Tahani Aljuaid (Gannon University, USA), Sreela Sasi (Gannon University, USA) 2441
DTMOS based low voltage high performance FVF-OTA and Its application in MISO Filter
Niharika Narang (NSIT, India), Bhawna Aggarwal (Netaji Subhas Institute of Technology, India), Maneesha Gupta (Netaji Subhas Institute of Technolgy & University of Delhi, India) 2446
Cloud Service Orchestration Based Architecture of OpenStack Nova and Swift
Pragya Jain (University of delhi, India), Aparna Datt (University of Delhi & PGDAV College, India), Anita Goel (Dyal Singh College, University of Delhi, India), Sc Gupta (Institute of Information Technology (IIT), Delhi, India, India) 2453
Design and Characterization of Analog Multiplexer for Data Acquisition System in Satellites
Venkata Sai krishna Vallury (Amrita School of Engineering, Bangalore, India), K S Saikiran (Amrita School of Engineering, Bangalore, India), Guditi Nagaraja (Amrita School of Engineering, Bangalore, India), Padmapriya K (ISRO Satellite Centre, Bangalore, India), Kavitha N Pillai (Amrita School of Engineering, Bangalore, India) 2460
Development of Low Cost EMG Data Acquisition System for Arm Activities Recognition
Sidharth Pancholi (Thapar University, India), Ravinder Agarwal (Thapar University, India) 2465
Multi-objective Moth Flame Optimization
Vikas Choudhary (Malaviya National Institute of Technology Jaipur, India), Satyasai Jagannath Nanda (Malaviya National Institute of Technology Jaipur, India) 2470
A Comparative Study of QoS Ranking Prediction Techniques in Cloud Services
Shirish Nagar (Manipal University, Jaipur & Poornima College of Engineering, India), Jyotirmoy Karjee (Indian Institute of Science, India) 2477
A Secure Software Design Methodology
Rajat Goel (Malaviya National Institute of Technology Jaipur, India), Mahesh Chandra Govil (Malaviya National Institute of Technology Jaipur, India), Girdhari Singh (Malaviya National Institute of Technology Jaipur, India) 2484
Driver's Distraction Detection Based on Gaze Estimation
Shweta Maralappanavar (B. V. Bhoomraddi College Of Engineering and Technology, India), ReenaKumari Behera (KPIT Technologies Ltd., India), Uma Mudenagudi (B. V Bhoomaraddi College of Engineering and Technology, Hubli, India) 2489
Minimally Supervised Sound Event Detection Using a Neural Network

Aditya Agarwal (P. E. S. University, India), Syed Munawwar Quadri (P. E. S. University, India), Savitha Murthy (P. E. S. University, India), Dinkar Sitaram (Pesit, India) 2495
An Advanced Authentication System for Multi Server Environment with Snort
Matta Divya Sai (St Martins Engineering College, India), R. Ch A Naidu (JNTU Hyderabad, India), Voni Sudharani V (ST MARTIN'S COLLEGE OF ENGG, India), M Sai Krishna Murthy (JNTUH, India), Meghana K (JNTUK, India) 2501
Role of Codec Selection on the Performance of IPsec Secured VoIP
Emmanuel Antwi-Boasiako (Ghana Institute of Management and Public Administration, Ghana), Eric Kuada (Ghana Institute of Management and Public Administration, Ghana), Kwasi Boakye-Boateng (Ghana Institute of Management and Public Administration, Ghana) 2508
Measurement Results for Direct and Single Hop Device-to-Device Communication Protocol
Vibhutesh Kumar Singh (Indraprastha Institute of Information Technology Delhi, India), Hardik Chawla (BITS Goa, India), Vivek A Bohara (Indraprastha Institute of Information Technology, Delhi (IIIT-Delhi), India) 2515
Mid-infrared Supercontinuum Generation in Ge11.5As24Se64.5 Based Chalcogenide Photonic Crystal Fiber
Sandeep Vyas (Malaviya National Institute of Technology, Jaipur & Vivekanand Institute of Technology (East), India) 2521
Analysis of Outage Performance of Opportunistic AF OFDM Relaying in Nakagami-m Channels
Piyush Kumar (Indian Institute of Technology Patna, India), Sudhan Majhi (Indian Institute of Technology, India), Youssef Nasser (American University of Beirut, Lebanon) 2527
Performance Evaluation of LTE Network: An Energy Saving and Capacity Gain Perspective
Sapna Thapar (The LNMIIT, JAIPUR, India), Purnendu Karmakar (The LNM Institute of Information Technology, India) 2532
Design And Gain Enhancement Of A CPW-Fed Dual Band Slot Antenna Using A Metamaterial Inspired Superstrate
Sk Islam (Indian Institute of Engineering Science and Technology, Shibpur, India) 2539
Network Processor - A simplified approach for transport layer offloading on NIC
Geetanjali Gadre (C-DAC, India), Shreeya Badhe (C-DAC, India), Kedar Kulkarni (C-DAC, India) 2542
DESH: Database Evaluation System With Hibernate ORM Framework
Gunasingh Gabriel (SSN College of Engineering, India), Chitra Babu (SSN Engineering College, India) 2549
An Effective Emitter-Source Localisation-based PUEA Detection Mechanism in Cognitive Radio Networks
Dikita Salam (North Eastern Regional Institute of Science and Technology, India), Amar Taggu (North Eastern Regional Institute of Science and Technology, India), Ningrinla Marchang (North Eastern Regional Institute of Science and Technology, Arunachal Pradesh, India) 2557
Adopting Ant Colony Optimization for Supervised Text Classification
Mohammed Wajeed (Jyothi Engineering College & Kerala, India), T Adilakshmi (Vasavi College of Engineering, India) 2562
The Current State of Voice Over Internet Protocol in Wireless Mesh Networks
Mohammad Tariq Meeran (Tallinn University & Kabul University, Estonia), Yannick Le Moullec (Tallinn University of Technology, Estonia), Paul Annus (Tallinn University of Technology, Estonia) 2567
Detection of Distributed Denial of Service Attacks in Software Defined Networks

Lohit Barki (B V Bhoomaraddi College of Engineering and Technology, India), Amrit Shidling (B V Bhoomaraddi College of Engineering and Technology, India), Nisharani Meti (B V Bhoomaraddi College of Engineering and Technology, India), Narayan D. G. (BVB College of Engineering and Technology, Hubli. Karnataka, India), Mohammed Moin Mulla (KLE Technological University, Hubli, Karnataka, India) 2576

Beacon Controlled Campus Surveillance

Gaurav Saraswat (Guru Gobing singh Indraprasth Universitg & Maharaja Agrasen Institute of Technology, India), Varun Garg (Guru Gobind Singh Indraprasth University, India) 2582

ICACCI-26: Poster Session III

RFID and Android Based Smart Ticketing and Destination Announcement System

Prasun Chowdhury (St. Thomas' College of Engineering & Technology, Kolkata, India), Poulami Bala (St. Thomas' College of Engineering & Technology, Kolkata, India), Diptadeep Addy (St. Thomas' College of Engineering & Technology, Kolkata, India), Sumit Giri (St. Thomas' College of Engineering & Technology, Kolkata, India), Aritra Ray Chaudhuri (St. Thomas' College of Engineering & Technology, Kolkata, India) 2587

Impact of Algorithm Complexity on Energy Utilization of Wireless Sensor Nodes

VM Lekshmy (Amrita Center for Wireless Networks and Applications, India) 2592

Feasibility and Performance Evaluation of VANET Techniques to Enhance Real-time Emergency Healthcare Services

Adwitiya Mukhopadhyay (Amrita Vishwa Vidyapeetham, Amrita University, India), Raghunath S (Amrita Vishwa Vidyapeetham, Amrita University, India), Kruti M (Amrita Vishwa Vidyapeetham, Amrita University, India) 2597

Implementation of Ignition Control with on Board Diagnosis

Rishi Dev (Amrita University, India), Shanmughasundaram R (Amrita University, India) 2604

Localization of sensor nodes using Modified Particle Swarm Optimization in Wireless Sensor Networks

Neelam Barak (IGDTUW, India), Neha Gaba (IGDTUW, India), Shipra Aggarwal (IGDTUW, India) 2608

A Study on the Impact of Macroeconomic Factors on s&p BSE Bankex Returns

Shilpa Sudhakaran (Amrita Vishwa Vidyapeetham University, India), Balasubramanian P (Amrita School of Business, Amrita University, India) 2614

The Terrain Identification by the Pulse Radar Altimeter

Artem Sorokin (Ural Federal University, Russia), Vladimir Vazhenin (Ural Federal University, Russia), Lubov Lesnaya (Ural Federal University, Russia) 2619

Power Aware Scheduling on Real-time Multi-core Systems

Amit Hanamakkanavar (BVB College of Engineering and Technology, PG Student, India), Vidya Handur (BVB Colloge of Engineering and Technology, Associate Professor, India), Priti Ranadive (KPIT Technologies Ltd. India, Principal Scientist, India), Venkatesh Kareti (KPIT Technologies Ltd. India, Sr Research Associate, India) 2624

Multi-Functional Secured Smart Home

Vinay Kumar Mittal (Indian Institute of Technology Chittoor, Sri City, India), C. V. Raghavendra Dharma Savarni (Indian Institute of Information Technology, Sricity, Chittoor, India), Gajjala Viswanatha Reddy (Indian Institute of Information Technology, Sricity, Chittoor, India), G. Rambabu Yadav (Indian Institute of Information Technology, Sricity, Chittoor, India), Md Shariq Suhail (Indian Institute of Information Technology, Sricity, India) 2629

Information Retrieval in Web Crawling A Survey

Chandni Saini (Thapar University, India), Vinay Arora (Patiala, Punjab & Thapar University, India) 2635

Design of a Wide Output Range and Reduced Current Mismatch Charge Pump PLL with Improved Performance

Sujata Pandey (AMITY University, Noida, India), Monika Bhardwaj (Amity University, India) 2644

Net Energy Meter with Appliance Control and Bi-directional Communication Capability

Tania Tony (Amrita Vishwa Vidyapeetham, Amrita University, India), Sivraj P (Amrita Vishwa Vidyapeetham, Amrita University & Amrita School of Engineering, India), Sasi K Kottayil (Amrita Vishwa Vidyapeetham, Amrita University, India) 2650

An Intelligent Controller for Smart Home

Vishnu Babu (Amrita Vishwa Vidyapeetham, Amrita University, India), Ashwin Kumar U (Amrita Vishwa Vidyapeetham, India), Priyadarshini Ramasamy (Amrita School Of Engineering, India), Krithika Premkumar (Amrita Vishwa Vidyapeetham, India), Nithin S (Amrita Vishwa Vidyapeetham, India) 2654

Design of Linear Phase Low Pass FIR Filter Using Restart Particle Swarm Optimization

Himanshu Gupta (SGSITS, Indore, India), Deepak Mandloi (SGSITS, India), Anand Jat (SGSITS, India), Arpit Gupta (SGSITS, India), Prabhakar Ojha (CDGI, India) 2658

Demographic Analysis of Twitter Users

Geeta Singh (Indian Institute of Technology Roorkee, India), Rajdeep Niyogi (Indian Institute of Technology Roorkee, India) 2662

Textual Content Based Information Retrieval From Twitter

Waseem Ahmad (Aligarh Muslim University, Aligarh, India), Rashid Ali (AMU Aligarh, India) 2668

Distributed Image Processing Using Hadoop and HIPI

Swapnil Arsh (The LNM Institute of Information Technology, India), Abhishek Bhatt (The LNM Institute of Information Technology, India), Praveen Kumar (VNIT, Nagpur, India, India) 2673

A Correlation Based SVM-Recursive Multiple Feature Elimination Classifier for Breast Cancer Disease Using Microarray

Kavitha KR (Amrita School of Engineering Amritapuri, India), Syamili RajendranG (Amrita School of Engineering Amritapuri, India), Varsha J (Amrita School of Engineering Amritapuri Kerala, India) 2677

T-Slotted Microstrip Patch Antenna for 5G WI-FI Network

Ravi Kumar Goyal (RTU & GOVT. ENGG. COLLEGE AJMER, India), Kamlesh Kumar Sharma (MNIT, India) 2684

Backpropagation Artificial Neural Network for Determination of Glucose Concentration From NearInfra Red Spectra

Bilal Malik (University of Kashmir, India) 2688

Pattern Generation and Symmetric Key Block Ciphering Using Cellular Automata

Rajat Mehta (Dr B R Ambedkar NIT Jalandhar, India), Rajneesh Rani (Dr B R Ambedkar NIT Jalandhar, India) 2692

An Efficient Spatial Domain based Image Watermarking using Shell Based Pixel Selection

Shubham Mathur (VIT University, India), Akshay Dhingra (Vit University, India), Manoharan Prabukumar (VIT University, India), Agilandeeswari Loganathan (VIT University, India), Muralibabu K (Lord Ayyapa Institute of Engineering and Technology, India) 2696
Anomaly Detection Based Multi Label Classification Using Association Rule Mining (ADMLCAR)
Prathibhamol Cp (Amrita University, India), Amala G s (Amrita School of Engineering, India), Malavika Kapadia (Amrita School of Engineering, India) 2703
Multi Label Classification Based on Logistic Regression (MLC-LR)
Prathibhamol Cp (Amrita University, India), Jyothy K v (Amrita School of Engineering, India), Noora B (Amrita School of Engineering, India) 2708
ECSim:A Simulation Tool for Performance Evaluation of Erasure Coded Storage Systems
Ojus Thomas Lee (NIT Calicut & NIT Calicut, India), S D Madhu Kumar (National Institute of Technology Calicut, India), Priya Chandran (National Institute of Technology Calicut, India) 2713
Real Time Performance Evaluation of Energy Detection Based Spectrum Sensing Algorithm Using WARP Board
H Yerranna (University of Hyderabad, India), Samrat Sabat (University of Hyderabad, India), Sunil Devanahalli Krishnamurthy (University of Hyderabad, India), Siba Kumar Udgata (University of Hyderabad, India) 2719
Design of Bioimpedance Spectrometer
Abhijit S. Patil (Vishwakarma Institute Of Information Technology (Affiliated To Savitribai Phule Pune University), India), Rajesh Bhaskar Ghongade (Vishwakarma Institute of Information Technology, India) 2724
Is Sentiment Analysis an Art or a Science? Impact of lexical richness in training corpus on machine learning
Sanchit Garg (HMR Institute of Technology & Management, India), Aashish Saini (HMR Institute of Technology & Management, India), Nitika Khanna (HMR Institute of Technology & Management, India) 2729
Performance Evaluation of Different Color Models Used in Color Iris Authentication
Abhilasha Sandipan Narote (Smt. Kashibai NAvale College Of Engineering, University of Pune, India), Laxman Madhavrao Waghmare (SGGS College of Engineering and Technology, SRMTU Nanded, India) 2736
An E-business Chatbot using AIML and LSA
Thomas N T (Amrita University & Amrita Vishwa Vidyapeetham, India) 2740
Classification of Mammogram Images by using CNN Classifier
Ketan Sharma (Chandigarh University, Mohali, India) 2743
A novel technique for LED dot-matrix text detection and recognition for non-uniform color system
Vandana Jhatwal (Chandigarh University, India) 2750
An Integrated Speech Processing Method Utilizing General Kalman Filter
Vijay Kiran Battula (University College of Engineering Vizianagaram, JNTU KAKINADA, India), Appala naidu Gottapu (University College of Engineering Vizianagaram, JNTU KAKINADA, India) 2755
Vehicle Trajectory Prediction using a Catadioptric Omnidirectional Camera
Vigneshram Krishnamoorthy (National Institute of Technology Tiruchirappalli, India), Saksham Agarwal (Indian Institute of Technology Kanpur, India), K. s. Venkatesh (Indian Institute of Technology, Kanpur, India) 2761

ECG Signal Analysis using Wavelet Coherence and S-Transform for Classification of Cardiovascular Diseases
Saksham Agarwal (Indian Institute of Technology Kanpur, India), Vigneshram Krishnamoorthy (National Institute of Technology Tiruchirappalli, India), Sawon Pratiher (Indian Institute Of Technology Kanpur, India) 2765
Investigation of CO-OFDM system using VCSEL for long reach systems employing symmetrical dispersion compensation modules
Garima Chouhan (Chandigarh University, India) 2771
Sensible Approach for Soil Fertility Management Using GIS Cloud
Leena H u (Siddaganga Institute of Technology, India), Premasudha BG (Siddaganga Institute of Technology, Tumkur, Karnataka, India) 2776