

# **2018 International Conference on Advances in Computing, Communications and Informatics (ICACCI 2018)**

**Bangalore, India  
19-22 September 2018**

**Pages 1-773**



**IEEE Catalog Number: CFP18CAF-POD  
ISBN: 978-1-5386-5315-9**

**Copyright © 2018 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 is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP18CAF-POD
ISBN (Print-On-Demand):	978-1-5386-5315-9
ISBN (Online):	978-1-5386-5314-2

**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](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

CURRAN ASSOCIATES INC.  
**proceedings**  
.com

# 2018 International Conference on Advances in Computing, Communications and Informatics (ICACCI)

## ICACCI-03: Artificial Intelligence and Machine Learning/Data Engineering/AIN'18 (Regular Papers)

<i>Solving Multi-Objective Optimization Problems using Differential Evolution Algorithm with Different Population Initialization Techniques</i>	
Gurusamy Jeyakumar (Amrita School of Engineering, India), K Devika (Amrita School of Engineering, Coimbatore, India)	1
<i>TELIL: A Trilateration and Edge Learning based Indoor Localization Technique for Emergency Scenarios</i>	
Adwitiya Mukhopadhyay (Amrita Vishwa Vidyapeetham, India), Aswin Mallisseray (Amrita Vishwa Vidyapeetham, India)	6
<i>Cardiac Arrhythmia Detection from Single-lead ECG using CNN and LSTM assisted by Oversampling</i>	
Dhwaj Verma (Indian Institute of Information Technology Allahabad, India), Sonali Agarwal (Indian Institute of Information Technology, Allahabad, India)	14
<i>Folding Paper Currency Recognition and Research Based on Convolution Neural Network</i>	
Menqshu Jiao (Central South University, P.R. China), Jianbiao He (Central South University, P.R. China), Baojiang Zhang (Central South University, P.R. China)	18
<i>Intelligent AI Assisted Psychological Disorder Analysis Using Sentiment Inference</i>	
Anil Kamath (Maharashtra Institute of Technology, Pune, India), Nirav Rajee (Maharashtra Institute of Technology, Pune, India), Saishashank Konduri (Maharashtra Institute of Technology, Pune, India), Hardik Shah (Maharashtra Institute of Technology, Pune, India), Varsha Naik (Maharashtra Institute of Technology, Pune, India), Krishnanjan Bhattacharjee (C-DAC, Pune, India), Shivakarthish S (C-DAC Pune, India), Swati Mehta (C-DAC, Pune, India), Ajai Kumar (C-DAC Pune, India)	24
<i>Diabetes Prediction Model Using Cloud Analytics</i>	
Soumayadeep Manna (Meghnad Saha Institute of Technology, Kolkata, India), Swagata Maity (Meghnad Saha Institute of Technology, Kolkata, India), Souvik Munshi (Meghnad Saha Institute of Technology, Kolkata, India), Mainak Adhikari (IIT(ISM), Dhanbad, India)	30
<i>Post-Surgical Survival forecasting of breast cancer patient: a novel approach</i>	
Devender Kaushik (Indian Institute of Information Technology, Allahabad, India), Bakshi Rohit Prasad (IIIT-Allahabad, India), Sanjay Kumar Sonbhadra (Indian Institute of Information Technology, Allahabad, India), Sonali Agarwal (Indian Institute of Information Technology, Allahabad, India)	37
<i>Novel Framework for Performance Prediction of Small and Medium Scale Enterprises: A Machine Learning Approach</i>	
Nishant Jain (Indian Institute of Technology, (ISM), India), Abhinav Tomar (Indian Institute of Technology (ISM) Dhanbad, India), Prasanta Kumar Jana (Indian Institute of Technology(ISM) Dhanbad, India)	42
<i>Human Crawl vs Animal Movement and Person with Object Classifications Using CNN for Side-view Images from Camera</i>	
Tarun Choubisa (Indian Institute of Science, India), Mohan Kashyap (IISc, India), Kodur Krishna Chaitanya (IISc, India)	48
<i>An Automatic Chord Progression Generator Based On Reinforcement Learning</i>	
Shipra Shukla (IIT-ISM, Dhanbad, India), Haider Banka (IIT-ISM, Dhanbad, India)	55

## ICACCI-12: Artificial Intelligence and Machine Learning/Data Engineering/AIN'18 (Regular Papers)

<i>A Novel Approach for Youtube Video Spam Detection using Markov Decision Process</i>	
Simran Kanodia (National Institute of Technology Calicut, India), Rachna Sasheendran (National Institute of Technology Calicut, India), Vinod Pathari (National Institute of Technology Calicut, India)	60
<i>Machine Learning for Secure Device Personalization Using Blockchain</i>	
Kushal Singla (Samsung R&D Institute, Bengaluru, India), Joy Bose (Samsung R&D Institute India, Bangalore, India), Sharvil Katariya (Samsung Research Institute, Bengaluru, India)	67
<i>Predictive Analysis to Improve Crop Yield using a Neural Network Model</i>	
Shruti Kulkarni (Ramaiah Institute of Technology, India), Shah Nawaz Mandal (Ramaiah Institute of Technology, India), G Srivatsa Sharma (Ramaiah Institute of Technology, India), Monica R M Mundada (MSRIT, India), Meeradevi K (MSRIT, India)	74
<i>Different Machine Learning Models to predict dropouts in MOOCs</i>	
Avinash Kashyap (Manipal Institute of Technology, India), Ashalatha Nayak (Manipal University, India)	80
<i>News Article Classification with Clustering using Semi-Supervised Learning</i>	
Arijun Krishnamoorthy (National Institute of Technology Calicut, India), Akshay Patil (National Institute of Technology Calicut, India), Vasudevan N (National Institute of Technology Calicut, India), Vinod Pathari (National Institute of Technology Calicut, India)	86
<i>Deep learning framework for recognition of various skin lesions due to diabetes</i>	
Tanu Gupta (Indian Institute of Technology, Roorkee, India), Satyam Saini (Jaypee Institute Of Information Technology, India), Aradhya Saini (Indian Institute of Technology Roorkee, INDIA, India), Shrutika Aggarwal (Graphic Era Hill University, India), Ankush Mittal (IIT Roorkee, India)	92

<i>Crop Prediction on the Region Belts of India: A Naïve Bayes MapReduce Precision Agricultural Model</i>	
Rashmi Priya (Indian Institute of Technology (ISM), Dhanbad, India), Dharavath Ramesh (Indian Institute of Technology( ISM), Dhanbad, India), Ekaansh Khosla (Indian Institute of Technology (ISM), Dhanbad, India) .....	99
<i>Deep PCANet Framework for the Binary Categorization Of Breast Histopathology Images</i>	
Revathi Mukkamala (Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Bengaluru, India), Poreddy Neeraja (Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Bengaluru, India), Sravya Pamidi (Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Bengaluru, India), Tina Babu (Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Bengaluru, India), Tripty Singh (Amrita Vishwa Vidyapeetham & Amrita School of Engineering, India) .....	105
<i>Trajectory Tracking using a Bio-inspired Neural Network for a Low-Cost Robotic Articulator</i>	
Arathi Rajendran (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, India), Aseela Abdulsalam (Amrita Vishwa Vidyapeetham, India), Drishya Mohan (Amrita Vishwa Vidyapeetham, India), Jasmina Thazhathepurayil (Amrita Vishwa Vidyapeetham, India), Sarqa Prabhat (Amrita Vishwa Vidyapeetham, India), Bipin Nair (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, Amrita University, India), Shyam Diwakar (Amrita Vishwa Vidyapeetham, India) .....	111
<i>Feature level fusion of Face and Iris using Deep Features based on Convolutional Neural Networks</i>	
Supreetha Gowda HD (University of Mysore, India), Mohammad Imran (University of Mysore, India), Hemantha Kumar (University of Mysore, India) .....	116
<i>TST: An Effective Approach to Extract Trend Feature in Stock Time Series</i>	
Yi Wei (University at Buffalo, USA), Vipin Chaudhary (University at Buffalo, SUNY, USA) .....	120
<i>Probabilistic Determination Of Down's Syndrome Using Machine Learning Techniques</i>	
Subhiksha Ramanathan (PES University, India), Sanqeetha M (PES University, India), Saachi Talwai (PES University, India), Natarajan S (PES University, Bengaluru, India, India) .....	126
<i>News Category Network based Approach for News Source Recommendations</i>	
Swati Gupta (IIT-Roorkee, India), Sagun Sodhani (IIT-Roorkee, India), Dhaval Patel (IBM TJ Watson Research, USA), Biplab Banerjee (IIT Roorkee, India) .....	133
<i>Modeling Nitric Oxide Induced Neural Activity and Neurovascular Coupling in a Cerebellum Circuit</i>	
Sreedev Radhakrishnan (Amrita Vishwa Vidyapeetham, India), Chaitanya Nutakki (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, Amrita University, India), Bipin Nair (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, Amrita University, India), Shyam Diwakar (Amrita Vishwa Vidyapeetham, India) .....	139
<i>A generic approach of filling missing values in NCDC weather stations data</i>	
Ibrahim Gad (Mangalore University, Karnataka, India), Hosahalli Doreswamy (Mangalore University, India) .....	143
<i>Improved Quality Detection Technique for Fruits Using GLCM and MultiClass SVM</i>	
Aishwarya Chandini (Amrita Vishwa Vidyapeetham, Amrita School of Engineering, Bengaluru, India), Uma Maheswari B (Amrita School of Engineering, Bengaluru, India) .....	150

## ICACCI-05: Internet of Things (IoT)/Networks/Distributed Systems

<i>Internet of Things applied to Asymmetric Operations</i>	
Vikas Sood (Centre for Artificial Intelligence and Robotics (CAIR), Bangalore & Defence Institute of Advanced Technology, Pune, India), Lakshmish Nayak (CAIR-DRDO, Bengaluru, India), Malay Nema (DRDO, India), Rituraj Kumar (Centre for Artificial Intelligence and Robotics (CAIR), Bangalore, India), Manisha Jitendra Nene (Defence Institute of Advanced Technology, India) .....	156
<i>LoRaWAN Evaluation for IoT Communication</i>	
Divita Singh (Fraunhofer FIT, Germany), Osianoh Glenn Aliu (Fraunhofer FIT & Network Research, Germany), Mathias Kretschmer (Fraunhofer FIT, Germany) .....	163
<i>RMDD:Cross Layer Attack in Internet of Things</i>	
Vivek Kumar Asati (Malaviya National Institute of Technology Jaipur, India), Emmanuel Shubhakar Pilli (Malaviya National Institute of Technology, Jaipur, India), Santosh Vipparthi (MNIT Jaipur, India), Shailesh Garq (Malaviya National Institute of Technology Jaipur, India), Shubham Singhal (Malaviya National Institute of Technology Jaipur, India), Shubham Pancholi (Malaviya National Institute of Technology Jaipur, India) .....	172
<i>Fast Localization and Topology Discovery Scheme to Handle Topology Changes in Industrial IoT Networks</i>	
Rakesh Matam (Indian Institute of Information Technology Guwahati, India), Abhishek Raushan (IIIT Guwahati, India) .....	179
<i>Blend of Cloud and Internet of Things (IoT) in agriculture sector using light weight protocol</i>	
Meenaxi Mahabaleshwar Raikar (K L E Technological University, India), Padmashree Desai (KLE Technological University & B V B C E T, India), Namita Shivakumar Kanthi (KLE Technological University, India), Sachin Bawoor (KLE Technological University, Hubballi, India) .....	185
<i>Upsurge of IoT (Internet of Things) in engineering education: A case study</i>	
Meenaxi Mahabaleshwar Raikar (K L E Technological University, India), Padmashree Desai (KLE Technological University & B V B C E T, India), Vijayalakshmi M (BVBCET, India), Prashant Narayankar (BVBhoomaraddi College of Engineering and Technology, India) .....	191
<i>IoT2Vec: Identification of Similar IoT Devices via Activity Footprints</i>	
Kushal Singla (Samsung R&D Institute, Bengaluru, India), Joy Bose (Samsung R&D Institute India, Bangalore, India) .....	198
<i>Localizing Assets in an Indoor Environment Using Sensor Fusion</i>	
Ritwik Murali (Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham, India), Dhivya Nachimuthu (Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham, India), Dhansri Varsha Senthil Kumar (Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham, India), Malarvizhi Shanmuqa Pandian (Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham, India), Dhareni Krishnen (Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham, India) .....	204
<i>Design of a 1kW Underwater Wireless Charging Station for Underwater Data Gathering Systems</i>	
Manikandan J (PES University (PESU), India), Vishwanath A (PES University (PESU), India), Manu Korulla (Naval Research Board (NRB), India) .....	211

<i>Smart Helmets for Safety in Mining Industry</i>	
Rohith Revindran (Technical University of Munich, Germany), Hansini Vijayaraghavan (Technical University of Munich, Germany), Mei-Yuan Huang (Technical University of Munich, Germany) .....	217
<i>An Improved Firefly Algorithm for the Vehicle Routing Problem with Time Windows</i>	
Divya Aggarwal (Niit University, India), Vijay Kumar (Thapar University, Patiala, India) .....	222
<i>Load Balancing through Block Rearrangement Policy for Hadoop Heterogeneous Cluster</i>	
Ankit Shah (Shankersinh Vaghela Babu Institute of Technology, India), Mamta C. Padole (The Maharaja Sayajirao University of Baroda, India) .....	230

## ICACCI-14: Internet of Things (IoT)/Networks/Distributed Systems

<i>Optimal Query-Processing-Node Discovery in IoT-Fog Computing Environment</i>	
Rakesh Matam (Indian Institute of Information Technology Guwahati, India), Nitendra Tomar (IIIT Guwahati, India) .....	237
<i>Trust Management Based on Node Stay Time in VANET</i>	
Bonish Koirala (School of ECE, REVA University, India), Shrikant Tangade (REVA University, India), Sunilkumar Manvi (REVA University, India) .....	242
<i>An IoT Automated Curtain System for Smart Homes</i>	
Letícia Souza (National Institute of Telecommunications (INATEL), Brazil), Joel J. P. C. Rodrigues (National Institute of Telecommunications (Inatel), Brazil & Instituto de Telecomunicações, Portugal), Gabriel Scarpioni (INATEL, Brazil), Diego Santos (National Institute of Telecommunications (INATEL), Brazil), Victor Albuquerque (Universidade de Fortaleza-Unifor, Brazil), Sanjay Kumar Dhurandher (NSIT, University of Delhi, India) .....	249
<i>An IoT-based Automated Shower System for Smart Homes</i>	
Rodolfo Rodrigues (National Institute of Telecommunications (INATEL), Brazil), Joel J. P. C. Rodrigues (National Institute of Telecommunications (Inatel), Brazil & Instituto de Telecomunicações, Portugal), Mauro Cruz (Instituto Nacional de Telecomunicações, Brazil), Ashish Khanna (GGSIP University, India), Deepak Gupta (GGSIP University, India) .....	254
<i>Performance Evaluation of IoT Network Management Platforms</i>	
Jonathan de Carvalho Silva (Instituto Nacional de Telecomunicações & Inatel, Brazil), Pedro Pereira (National Institute of Telecommunications (Inatel), Brazil), Lucas Souza (National Institute of Telecommunications (Inatel), Brazil), Carlos N. M. Marins (National Institute of Telecommunications (Inatel), Brazil), Guilherme Marcondes (National Institute of Telecommunications - Inatel, Brazil), Joel J. P. C. Rodrigues (National Institute of Telecommunications (Inatel), Brazil & Instituto de Telecomunicações, Portugal) .....	259
<i>System for Detection of Emergency Situations in Smart City Environments Employing Smartphones</i>	
Laura Garcia (Universitat Politècnica de Valencia, Spain), Lorena Parra (Universitat Politècnica de Valencia, Spain), Miran Taha (Universidad Politécnica de Valencia, Spain & University of Sulaimani, Kurdistan Region, Iraq), Jaime Lloret (Universitat Politècnica de Valencia, Spain) .....	266
<i>Efficient and Novel Broadcasting in VANET using Next Forwarder Selection Algorithm</i>	
Bidisha Bhabani (Indian Institute of Engineering Science and Technology, Shibpur, India), Sulata Mitra (Indian Institute of Engineering Science and Technology, India), Ananya Paul (IEST, India) .....	273
<i>End-to-end delay and energy efficiency of multihop wireless networks with cooperative MAC</i>	
Shamna Hamsa Rahim (National Institute of Technology Calicut, India), Lillykutty Jacob (National Institute of Technology Calicut, India) .....	280
<i>Task personalization for inexperience workers in incentive based crowdsourcing platforms</i>	
Ayswarya R Kurup (Amrita ViswaVidyapeetham, India), G. p. Sajeev (Amrita Vishwa Vidyapeetham & Govt Engineering College, India) .....	286
<i>Resource-Aware Energy Efficient Workflow Scheduling in Cloud Infrastructure</i>	
Madhu Sudan Kumar (IIT (ISM), Dhanbad, India), Indrajeet Gupta (Indian Institute of Technology (ISM), Dhanbad, India), Prasanta Kumar Jana (Indian Institute of Technology (ISM) Dhanbad, India) .....	293
<i>Software as a Service by Interoperating in a Multi-Cloud Environment</i>	
Saravanan I (Anna University, India), Rajeswari Sridhar (College of Engineering, Guindy, Anna University, India) .....	300
<i>UVM Based Testbench Architecture for Coverage Driven Functional Verification of SPI Protocol</i>	
Vineeth B (Amrita Vishwa Vidyapeetham, India, India), Bala Tripura Sundari B (Amrita Vishwa Vidyapeetham, Amrita University, India) .....	307
<i>A Population-based Approach for Load Balancing in Distributed Computing Systems</i>	
Avadh Kishor (Indian Institute of Technology Roorkee, India), Rajdeep Niyogi (Indian Institute of Technology Roorkee, India) .....	311

## ICACCI-15: Security, Trust and Privacy/Steganography/SAI'18 (Regular Papers)

<i>Performance Comparison and Analysis of Slowloris, GoldenEye and Xerxes DDoS Attack Tools</i>	
Tanishka Shorey (Vellore Institute of Technology Vellore, India), Deepthi Subbaiah (Vellore Institute of Technology Vellore, India), Ashwin Goyal (Vellore Institute of Technology Vellore, India), Anurag Saxena (Vellore Institute of Technology Vellore, India), Alekha Kumar Mishra (National Institute of Technology Jamshedpur, India) .....	318
<i>Attribute based Range Search over Encrypted Data for Privacy Preserving in Cloud Computing</i>	
Jeswanth Maseedu (University Of Hyderabad, India), Syam P (IDRBT, India) .....	323
<i>Intelligent Malware Detection using Oblique Random Forest Paradigm</i>	
S Abijah Roseline (VIT University, India), S Geetha (VIT University Chennai Campus, India) .....	330

<i>A Hybrid Approach to Rumour Detection in Microblogging Platforms</i> Abhishek Vijeev (PES University, India), Anushreya Mahapatra (PES University, India), Arundhati Shyamkrishna (PES University, India), Srinivasa Murthy (PES University, India) .....	337
<i>Hardware Implementation of Text Encryption using Elliptic Curve Cryptography over 192 bit Prime Field</i> Mohita Jaiswal (The LNM Institute of Information Technology, India), Kusum Lata (The LNM Institute of Information Technology, Jaipur, India) .....	343
<i>Privacy Preserving Dynamically Indexed Multi-Phrase Search over Encrypted Data</i> MD Asrar Ahmed (Computer Science and Engineering Department, University College of Engineering, Osmania University, India), S Ramachandram (Osmania University, India), Khaleel Ur Rahman Khan (Muffakham Jah College of Engineering and Technology, India) .....	350
<i>A Survey on Metamorphic Malware Detection based on Hidden Markov Model</i> Satheesh Kumar Sasidharan (CDAC, Trivandrum, India), Ciza Thomas (College of Engineering Trivandrum, India) .....	357
<i>An SVM-based Multiclass IDS for Multicast Routing Attacks in Mobile Ad Hoc Networks</i> Menaka Pushpa Arthur (St Joseph's Institute of Technology, India) .....	363
<i>Blind Quantitative Steganalysis using SVD Features</i> Anuradha Singhal (University of Delhi, India), Punam Bedi (University of Delhi, India) .....	369
<i>FPGA Implementation of Traffic Light Controller and its Analysis in the Presence of Hardware Trojan</i> Aastha Bhardwaj (The LNM Institute of Information Technology, Jaipur, India), Surbhi Chhabra (The LNM Institute of Information Technology, Jaipur, India), Kusum Lata (The LNM Institute of Information Technology, Jaipur, India) .....	375
<i>Authentication using text and graphical password</i> Abhilash Joshi (Manipal Institute of Technology, India), Balachandra Muniyal (Manipal Institute of Technology, India) .....	381

## ICACCI-20: Security, Trust and Privacy/Steganography/SAI'18 (Regular Papers)

<i>A Proposed Serpent-Elliptic Hybrid Cryptosystem For Multimedia Protection</i> Mazhar Tayel (Alexandria University, Egypt), George Dawood (Alexandria University, Egypt), Hamed Shawky (Alexandria University, Egypt) .....	387
<i>Mitigating DNS Amplification Attacks Using a Set of Geographically Distributed SDN Routers</i> Vishal Gupta (BITS Pilani, India), Eklavya Sharma (BITS Pilani, India) .....	392
<i>Enhancing Data Security using Obfuscated 128-bit AES Algorithm - An Active Hardware Obfuscation Approach at RTL Level</i> Surbhi Chhabra (The LNM Institute of Information Technology, Jaipur, India), Kusum Lata (The LNM Institute of Information Technology, Jaipur, India) .....	401
<i>Output Compressive Sensing for Trojan Detection Using Time-Based Side Channel Technique</i> Priyatharishini M. (Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham, India), Prithviraj Tantubay (Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham, India) .....	407
<i>A Secure and Efficient Color Image Encryption Scheme based on Two Chaotic Systems and Advanced Encryption Standard</i> Pragyanshree Nayak (VSS University of Technology, Burla, India), Sanjeet Kumar Nayak (Indian Institute of Technology Patna, Patna, India), Satyabrata Das (Veer Surendra Sai University of Technology, Burla, India) .....	412
<i>A LLC-based DoS Attack Technique on Virtualization System with Detection and Prevention Model</i> Neha Pimpalkar (College of Engineering Pune, India, India), Jibi Abraham (College of Engineering, Pune, India) .....	419

## ICACCI-09: Industry Track (Regular Papers)

<i>Design and Evaluation of a Real-Time Speech Recognition System</i> Shruthi Sarathy (PES University, India), Yashaswi Gurumurthy (PES University, India), Shruti Verma (PES University, India), Manikandan J (PES University (PESU), India) .....	425
<i>Low Power and Area Efficient Max-log-MAP Decoder</i> Kalpana Eluri (Amrita Vishwa Vidyapeetham, India), Yamuna B (Amrita Vishwa Vidyapeetham, India), Karthi Balasubramanian (Amrita Vishwa Vidyapeetham & Amrita School of Engineering, Coimbatore, India), Deepak Mishra (Space Application Centre & Indian Space Research Organization, India) .....	431
<i>Dynamic Traffic Light Control Mechanism in VANET</i> Ananya Paul (IIEST, India), Sulata Mitra (Indian Institute of Engineering Science and Technology, India) .....	436
<i>Traffic Service Quantitative Analysis Method under Developing Country</i> Tsutomu Tsuboi (29-1 Mentoku Shinoda Ama-shi, Aichi, JAPAN & Nagoya Electric Works Co., LTD., Japan) .....	443
<i>Safety Critical Embedded Software: Significance and Approach to Reliability</i> Shobha S Prabhu (Gas Turbine Research Establishment, India), Hem Kapil (Gas Turbine Research Establishment, India), Shashirekha Hosahalli Lakshmaiah (Mangalore University, India) .....	449
<i>Hardware Design and Implementation of Pseudorandom Number Generator Using Piecewise Linear Chaotic Map</i> Abhijeet Thane (University Of Mumbai, India), Ravindra Chaudhari (SFIT, Mumbai, India) .....	456
<i>A Novel Approach for Generating Composite Sketches from Mugshot Photographs</i> Pallavi S (NMAM Institute of Technology and Management, India), Sannidhan MS (NMAM Institute of Technology, India), Sudeepa KB (NMAM Institute of Technology, Nitte, India), Abhir Bhandary (NMAM Institute of Technology, India) .....	460
<i>Algebraic Applications on Multiset Filters of Residuated Lattices</i> VS Anusuya Ilamathi (Alagappa University, India), J Vimala Jayakumar (Alagappa University & Karaikudi, India) .....	466

<i>Knowledge Extraction from Apps data and its Application in AdTargeting</i>	
Shubham Gautam (Hotstar, India), Lakshya Ghuliani (Hotstar, India), Amit Sachan (Hotstar, India) .....	471
<i>Motivators, Hygiene Factors and Job Satisfaction of Employees in IT Sector in India</i>	
Rajiv Prasad (Amrita Vishwa Vidyapeetham University & Amrita School of Business, India), Akhil Warriar (Amrita Vishwa Vidyapeetham, India) .....	477
<i>Design By Contract Methodology - A Step Towards Zero-defect Programming</i>	
Murthy Pvr (MS Ramaiah University of Applied Sciences, India) .....	482
<i>Vulnerability Coverage Criteria for Security Testing of Web Applications</i>	
Murthy Pvr (MS Ramaiah University of Applied Sciences, India), Shilpa Rg (Ramaiah University, India) .....	489
<i>A Data Science - Centered Approach to Studying International Relations and Foreign Policies</i>	
Venkatesh Seetha (National Institute of Technology Calicut, India), Vinod Pathari (National Institute of Technology Calicut, India) .....	495

## ICACCI-06: Signal/Image/video/speech Processing/Computer Vision/Pattern Recognition (Regular Papers)

<i>Convolution Neural Network Based Deep Features for Text Recognition in Multi-Type Images</i>	
KS Raghunandan (University of Mysore, India) .....	502
<i>An improved technique for Night-time Vehicle detection</i>	
Sai Pradeep Chakka (Amrita Vishwa Vidyapeetham, India), Ramanathan R (Amrita Vishwa Vidyapeetham, India) .....	508
<i>Audio Mining: Unsupervised Spoken Term Detection over an Audio Database</i>	
Kishore Kumar R (IIT Kharagpur, India), Sandipan Sarkar (Integrated Test Range & Defence Research Development Organisation, India), Pradeep Rengaswamy (IIT Kharagpur, India), K. Sreenivasa Rao (IIT KGP, India) .....	514
<i>Design and Evaluation of a Real-Time Character Recognition System</i>	
Shruthi Sarathy (PES University, India), Manikandan J (PES University (PESU), India) .....	519
<i>The Role of Color and Texture Features in Glaucoma Detection</i>	
Sumaiya Pathan (Manipal Institute of Technology, Manipal & Manipal Institute of Technology, MAHE, India), Preetham Kumar (Manipal Institute of Technology, Manipal University, India), Radhika M. Pai (Manipal Institute of Technology, India) .....	526
<i>Prediction of Lung Cancer from Low-Resolution Nodules in CT-Scan Images by using Deep Features</i>	
Anand Gupta (Netaji Subhas Institute Of Technology, India), Saqorika Das (Netaji Subhas Institute of Technology, India), Tarasha Khurana (Netaji Subhas Institute of Technology, Delhi, India), Kamakshi Suri (Netaji Subhas Institute Of Technology, India) .....	531
<i>Multiclass Text Classification and Analytics for Improving Customer Support Response through different Classifiers</i>	
Piyush Singh Parmar (Amrita University & Amrita School of Engineering, Ettimadai, Coimbatore, India), Biju P. K. (Corporate Development Center ABB, GISPL, Bangalore, India), Mani Shankar (Corporate Development Center ABB, GISPL, Bangalore, India), Nalinadevi Kadiresan (Amrita University & Amrita School of Engineering, Ettimadai, Coimbatore, India) .....	538
<i>Speed Control of Permanent Magnet Synchronous Motor Drive System Using PI,PID,SMC and SMC plus PID Controller</i>	
Kumari Suman (NIT Calicut, India) .....	543
<i>EEG Based Control - A Study Using Wavelet Features</i>	
Poorna S (Amrita School of Engineering & Amrita Viswavidyapeetham, India), Revathy Raqhav (Amrita Viswa Vidyapeetham, Amritapuri, India), Aiswarya Nandan (Amrita Viswa Vidyapeetham, Amritapuri, India), GJ Nair (Amrita Vishwa Vidyapeetham University & Amritapuri, India) .....	550
<i>Tumour Detection in Double Threshold Segmented Mammograms Using Optimized GLCM Features fed SVM</i>	
Ashwanth Unni (Department of Computer Science, Amrita School of Engineering,Amrita Vishwavidyapeetham, Amritapuri, India, India), Nidheep Ee (Department of Computer Science, Amrita School of Engineering,Amrita Vishwavidyapeetham, Amritapuri, India, India), Saurav Vinod (Department of Computer Science, Amrita School of Engineering,Amrita Vishwavidyapeetham, Amritapuri, India, India), Lekha S Nair (Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Amritapuri, India) .....	554

## ICACCI-16: Signal/Image/video/speech Processing/Computer Vision/Pattern Recognition (Regular Papers)

<i>Analysis and Classification of Railway Track Surfaces based on Image Processing</i>	
Sai Pavan Kartheek Sunkara (Amrita School of Engineering Bangalore, India), Navin Kumar (Amrita University & School of Engineering, India) .....	560
<i>ACORB - An ACO and ORB based Hybrid Image Feature Detector</i>	
Vishwas Raval (The M S University of Baroda, India), Apurva Shah (The M S University of Baroda, India) .....	565
<i>Extracting Building Footprints from Satellite Images using Convolutional Neural Networks</i>	
Chandan Chawda (TomTom India Pvt. Ltd., India), Jagannath V Aghav (College of Engineering Shivajinagar Pune, India), Swapnil Udar (TomTom India Pvt. Ltd., India) .....	572
<i>Functional MRI Data Analysis Using Connectivity Strengths to Identify Cognitive States</i>	
J Siva Ramakrishna (Institute of Aeronautical Engineering & M. S. Ramaiah Uuniversity of Applied Sciences, India), Hariharan Ramasangu (Research, India) .....	578
<i>Empirical study on two-class image classification</i>	
Smriti Kumari (Indian Institute of Information Technology Manipur, India), Navanath Saharia (Indian Institute of Information Technology Manipur, India) .....	583

<i>A comparative study of dictionary learning algorithms on speech recognition task</i> Kadambari Sai Kiran (Amrita School of Engineering & Amrita Vishwa Vidyapeetham, India), Anupam Mandal (Center for AI and Robotics, Bangalore, India), K R Prasanna Kumar (Centre for Artificial Intelligence and Robotics, India), Pabitra Mitra (Indian Institute of Technology, Kharagpur, India), Veni S (Amrita Vishwa Vidyapeetham, India) .....	588
<i>Segmentation of Pap Smear Images to Diagnose Cervical Cancer Types and Stages</i> Vasundhara Acharya (Manipal University, India), Preetham Kumar (Manipal Institute of Technology, Manipal University, India) .....	595
<i>Facial Expression Classifier Using Better Technique: FisherFace Algorithm</i> Nishanth Hegde (BMS College of Engineering, India), Preetha S (VTU, India), Sachin Bhagwat (BMS College of Engineering, India) .....	604
<i>Efficient Similarity Measurement between Digitally Reconstructed Radiograph and Fluoroscopy for 3D-2D Registration</i> Chaitanya Rao (Manipal Institute of Technology, MAHE, India), Anitha H (Manipal Institute of Technology, India), Shyamasunder Bhat (Kasturba Medical College, Manipal, India), Vidya Bhat (Manipal Institute of Technology, MAHE, India) .....	611
<i>LRJPEG: A Luminance Reduction based Modification for JPEG Algorithm to Improve Medical Image Compression</i> Adwitiya Mukhopadhyay (Amrita Vishwa Vidyapeetham, India), Ashil Raj (Amrita Vishwa Vidyapeetham, India), Rony Shaji (Amrita Vishwa Vidyapeetham, India) .....	617

## ICACCI-21: Signal/Image/video/speech Processing/Computer Vision/Pattern Recognition (Regular Papers)

<i>Motion Artifact Removal and Feature Extraction from PPG Signals Using Efficient Signal Processing Algorithms</i> Anjana Luke (Amrita Vishwa Vidyapeetham, India, India), Shereena Shaji (Amrita University, India), K. A. Unnikrishna Menon (Amrita Vishwa Vidyapeetham, India) .....	624
<i>Real-Time ECG Monitoring over Multi-Tiered Telemedicine Environment using Firebase</i> Adwitiya Mukhopadhyay (Amrita Vishwa Vidyapeetham, India), Bobin Xavier (Amrita Vishwa Vidyapeetham, India), Sidharth Sreekumar (Amrita Vishwa Vidyapeetham, India), Suraj M (Amrita University, India) .....	631
<i>Implementation of Compact Wearable Fall Detector for the Elderly</i> Bhavana V (Amrita Vishwa Vidyapeetham, India), Sai Sathish MR (Amrita School of Engineering Bengaluru Amrita Vishwa Vidyapeetham India, India), Sai Vamsi Krishna Bondada (Amrita School of Engineering Bengaluru Amrita Vishwa Vidyapeetham India, India), Arjun Vss (Amrita School of Engineering Bengaluru Amrita Vishwa Vidyapeetham India, India) .....	638
<i>Line Detection in Run-Length Encoded Document Images using Monotonically Increasing Graph Model</i> Amarnath R (University of Mysore, India), P. Nagabhushan (Mysore University, India), Mohammed Javed (Indian Institute of Information Technology (IIIT) Allahabad, India) .....	644
<i>Modeling of Glutamate Pathway in Alzheimer's Disease using Biochemical Systems Theory</i> Hemalatha Sasidharakurup (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, Amrita University, India), Malavika Pradeep (Amrita Vishwa Vidyapeetham, India), Maanasa Bhaskaran (Amrita Vishwa Vidyapeetham, India), Anu Priya (Amrita Vishwa Vidyapeetham, India), Evelin Pradeep (Amrita Vishwa Vidyapeetham, India), Shruithi Kadavath (Amrita Vishwa Vidyapeetham, India), Bipin Nair (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, Amrita University, India), Shyam Diwaker (Amrita Vishwa Vidyapeetham, India) .....	650
<i>Discriminative sparse representation for speech mode classification</i> Kumud Tripathi (Indian Institute of Technology Kharagpur, India), K. Sreenivasa Rao (IIT KGP, India) .....	655
<i>Detection of Exudates in Diabetic Retinopathy</i> Natarajan Chidambaram (Amrita Vishwa Vidyapeetham, India), Devi Vijayan (Amrita Vishwa Vidyapeetham, India) .....	660
<i>Sub-block based global motion estimation for affine motion model</i> Musarath T (NIT CALICUT, India), Supriya K (NIT CALICUT, India), Sreelekha G (National Institute Of Technology, India) .....	665
<i>Analysis of Denoising Techniques for Speckle Noise Removal in Synthetic Aperture Radar Images</i> Hemani Parikh (Pandit Deendayal Petroleum University, India), Samir Patel (Pandit Deendayal Petroleum University, India), Vibha Patel (Gujarat Technological University, India) .....	671
<i>Corrosion Damage Identification and Lifetime Estimation of Ship Parts using Image Processing</i> Indukala Naladala (National Institute of Technology Karnataka, Surathkal, India), Aparna Raju (National Institute of Technology Karnataka, India), Aishwarya C (NITK Surathkal, India), Shashidhar G. Koolagudi (NIT, Surathkal, India) .....	678

## ICACCI-04: Embedded Systems/Computer Architecture and VLSI/Adaptive Systems/ICAIS'18 (Regular Papers)

<i>Improved Iterative Thresholding Technique for Detection in Sporadic Large-Scale Multiuser MIMO Systems</i> Anjali V s (Amrita Vishwa Vidyapeetham, India), Ramanathan R (Amrita Vishwa Vidyapeetham, India) .....	684
<i>Accurate Power and Latency Analysis of a Through-Silicon Via(TSV)</i> Ujjwal Pasupulety (National Institute of Technology Karnataka, Surathkal & Systems, Parallelization and Architecture Research Lab, NITK, India), Bheemappa Halavar (National Institute of Technology Karnataka Mangalore, India), Basavaraj Talawar (National Institute of Technology Karnataka, India) .....	688
<i>Bit Error Rate (BER) Performance Analysis of DASH7 Protocol In Rayleigh Fading Channel</i> Panchanqam Aravind (Amrita School of Engineering, India), Jalpa Shah (Amrita School of Engineering, India), Dhanesh G. Kurup (Amrita University, Bengaluru Campus, India) .....	695



<i>ASIC Implementation of High Performance Radix-8 CORDIC Algorithm</i>	
Ankur Changela (Indus Institute of Technology and Engineering, Indus University, India), Mazad Zaveri (Ahmedabad University & School of Engineering and Applied Science, India), Anurag Lakhani (School of Engineering and Applied Science, Ahmedabad University, India)	699
<i>Comparative study of LST and SJF Scheduling Algorithm in Soft Real-Time System with its Implementation and Analysis</i>	
Jay Teraiya (Marwadi Education Foundation, India), Apurva Shah (The M S University of Baroda, India)	706
<i>Design of Quadrature Voltage Controlled Oscillator at 60GHz in 65nm CMOS</i>	
Sethu Raman (Amrita School of Engineering Bangalore, India), Vignesh V (Amrita School of Engineering Bangalore, India), Navin Kumar (Amrita University & School of Engineering, India)	712
<i>Design of Wideband Millimeter Wave Mixer in CMOS 65nm for 5G Wireless</i>	
Sweta Singh (Amrita School of Engineering Bangalore, India), Navin Kumar (Amrita University & School of Engineering, India)	717

## ICACCI-13: Embedded Systems/Computer Architecture and VLSI/Adaptive Systems/ICAIS'18 (Regular Papers)

<i>Performance of Ultra Wideband (UWB) pulsed doppler radar for heart rate and respiration rate monitoring in Noise</i>	
Dhanesh G. Kurup (Amrita University, Bengaluru Campus, India), Parul Mathur (144 Lake Shore Homes & Amrita School of Engineering, Bengaluru, Amrita Vishwa Vidyapeetham Amrita University, India), Shruthi N (Amrita Vishwa Vidyapeetham, Amrita University, India)	722
<i>Joint Crosstalk Avoidance with Multiple Bit Error Correction Coding Technique for NoC Interconnect</i>	
T Siva Teja (Amrita School of Engineering, Bengaluru, India), M Vinodhini (Amrita School of Engineering, Bengaluru, India)	726
<i>Wideband Low Noise Amplifier Design for Microwave Frequency using CMOS 65nm Technology</i>	
Ruchi Kumari (Amrita School of Engineering Bangalore, India), Vignesh V (Amrita School of Engineering Bangalore, India), Navin Kumar (Amrita University & School of Engineering, India)	732
<i>Effects of Memristors on Fully Differential Transimpedance Amplifier Performance</i>	
Berik Arqimbayev (Nazarbayev University, Kazakhstan), Olga Krestinskaya (Nazarbayev University, Kazakhstan), Alex Pappachen James (Nazarbayev University, Kazakhstan)	737
<i>Realtime On-chip Wireless Waveform Monitoring</i>	
Anup S (PES University, India), Sowmiya Balaji (PES University, India), Amishi Gupta (PES University, Bangalore, India), Suresh Padmanabhan (Visvesvaraya Technological University & PES University, India)	743
<i>FPGA Implementation of an Efficient High Speed Max-log-MAP Decoder</i>	
Aishwarya Ambat (Amrita School of Engineering, India), Karthi Balasubramanian (Amrita Vishwa Vidyapeetham & Amrita School of Engineering, Coimbatore, India), Yamuna B (Amrita Vishwa Vidyapeetham, India), Deepak Mishra (Space Application Centre & Indian Space Research Organization, India)	747
<i>Design of Reversible Shift Registers Minimizing Number of Gates, Constant Inputs and Garbage Outputs</i>	
Partho Ghose (Jagannath University, Bangladesh), Md Naimur Rahman (Jagannath University, Bangladesh), Md Masbaul Alam Polash (Jagannath University, Bangladesh), Uzzal Acharjee (Jagannath University, Bangladesh)	752
<i>Two - Staged Precoder for Massive MIMO Millimeter Wave systems</i>	
Narayanam Sai Srinivas Murthy (Amrita Vishwa Vidyapeetham, India), Praneeth Bandaru (Amrita Vishwa Vidyapeetham, India), Guntupalli Krishna Vamsi (Amrita Vishwa Vidyapeetham, India), Koppuravuri Venkata Durga Narendra Kumar (Amrita Vishwa Vidyapeetham, India), Pranav Manoj (Amrita Vishwa Vidyapeetham, India), Kirthiga S (Amrita Vishwa Vidyapeetham & Amrita School of Engineering, India)	759
<i>FPGA Based Implementation of Linear SVM for Facial Expression Classification</i>	
Sumeet Saurav (CSIR-CEERI, India), Ravi Saini (CSIR-CEERI Pilani, India), Sanjay Singh (CSIR - Central Electronics Engineering Research Institute (CSIR-CEERI) & Academy of Scientific & Innovative Research (AcSIR), India)	766
<i>Fast Approach for Iris Detection on GPU by Applying Search Localization for Circular Hough Transform</i>	
Pinkey Kumari (Amrita School of Engineering, Bengaluru, India), Srinath R. Naidu (Amrita School of Engineering, Bengaluru, India)	774

## ICACCI-17: Symposium on VLSI Design and Embedded Computing (VDEC'18)

<i>FPGA Based Ultrasonic Thickness Measuring Device</i>	
Shrisha R (BMS College Of Engineering, India), Nibir Chakraborty (Indian Institute of Science, India), D Mahapatra (Indian Institute of Science, India), Sowmya Sunkara (BMS College of Engineering, India)	779
<i>High Speed, Low Power Approximate Multipliers</i>	
Kamya Varma (Amrita Vishwa Vidyapeetham, India), Sonali Agrawal (Amrita School of Engineering, Bengaluru, Amrita Vishwa Vidyapeetham, India)	785
<i>Low power and area efficient error tolerant design for parallel filters</i>	
Sandeep S (Amrita Vishwa Vidyapeetham, India), P Sathish Kumar (Amrita Vishwa Vidyapeetham, India)	791
<i>Delay based Physical Unclonable Function for Hardware Security and Trust</i>	
Kolasani Sahithi (Amrita School of Engineering, Bengaluru, Amrita Vishwa Vidyapeetham, India), N s Murthy (Amrita School of Engineering, Bengaluru & Amrita Vishwa Vidyapeetham, India)	797
<i>FPGA Implementation of Pseudo Chaos-signal Generator for Secure Communication Systems</i>	
Sreenath H (Amrita Vishwa Vidyapeetham, India), Gayathri Narayanan (Amrita Vishwa Vidyapeetham-AMRITA University, India)	804

<i>Design of LVDS Transmitter with SLVDS mode for Low Power Applications in 55nm CMOS Technology</i> Durqa Prasanth Kumar Gavara (Amrita Vishwa Vidyapeetham, Amritapuri, India), Shekar G (Amrita Vishwa Vidyapeetham, Amritapuri, India) .....	808
<i>All Digital Phase Locked Loop for Low Frequency Applications</i> Pradyuman Bissa (Amrita Vishwa Vidyapeetham, India), Kirti Pande (Amrita Vishwa Vidyapeetham, India) .....	813
<i>A performance study of Levenberg - Marquardt (LM) Algorithm in Echo Estimation</i> Sivaprasad S (Amrita Vishwa Vidyapeetham, India), Prasanth Warriar (Amrita Vishwa Vidyapeetham, India) .....	820
<i>FPGA implementation of compensation algorithm for impacts of eliminated flicker noise in Zero IF architecture PCRs</i> Greeshma Nair (Amrita Vishwa Vidyapeetham, India), Devi S (Amrita University, Amritapuri & Amrita University, Amritapuri, India) .....	827

## ICACCI-23: Sixth International Symposium on Women in Computing and Informatics (WCI'18) - regular papers

<i>Resilient Mechanism for security in navigation of Service Vehicles and Aircrafts at Airports</i> Muzzammil Hussain (Central University of Rajasthan, India), Komal Jhorar (Central University of Rajasthan, India) .....	831
<i>Trajectory Tracking by Multi-Agent in Octagonal Formation using Conventional and Adaptive Control</i> B. K. Swathi Prasad (M. S. Ramaiah University of Applied Sciences, India), Hariharan Ramasangu (Research, India) .....	838
<i>Counting Chemical Structures Resembling Trees</i> Bhadrachalam Chitturi (Amrita Vishwa Vidyapeetham, Amritapuri, USA), Athira Selvam (Amrita Vishwa Vidyapeetham, India), Sravya K V S P Sai (Amrita Vishwa Vidyapeetham, India) .....	845
<i>Secure Session Key Sharing Using Symmetric Key Cryptography</i> Shweta Arora (Central University of Rajasthan, India), Muzzammil Hussain (Central University of Rajasthan, India) .....	850
<i>Extending Denoising AutoEncoders for Feature Recognition</i> Natasha Jeppu (National Institute of Technology Karnataka Surathkal, India), Chandrasekaran K (National Institute of Technology Karnataka Surathkal, India) .....	856
<i>Analysis and Prediction of Survival after Colorectal Chemotherapy using Machine Learning Models</i> Aditya Barsainya (Ramaiah Institute of Technology, India), Anusha Sairam (Ramaiah Institute of Technology, India), Annapurna Patil (M S Ramaiah Institute of Technology, India) .....	862
<i>A Novel Community Detection Method for Collaborative Networks</i> K. Krishna Samhitha (Amrita School of Engineering, India), G. p. Sajeev (Amrita Vishwa Vidyapeetham & Govt Engineering College, India), Jayasree Narayanan (Amrita Vishwa Vidyapeetham, Amritapuri, India) .....	866
<i>Online Voting Application Using Ethereum Blockchain</i> Shalini Shukla (Visvesvaraya Technological University, India), Shashank D, O (Visvesvaraya Technological University, India), Thasmiya A, N (Visvesvaraya Technological University, India), Mamatha H R (P E S University & Visvesvaraya Technological University, India) .....	873
<i>Image to Speech Converter - A Case Study on Handwritten Kannada Characters</i> Sneha U B (PESIT, India), Soundarya A (PESIT, India), Srilalitha K (PESIT, India), Chandravva Hebba (PESIT, India), Mamatha H R (P E S University & Visvesvaraya Technological University, India) .....	881
<i>Commercial Mango Juice Classification Using Fuzzy Logic</i> Cheryl Anto Nellissery (Amrita School of Engineering, Amrita Vishwa Vidyapeetham, India), Krishnapriya S (Amrita School of Engineering, Amrita Vishwa Vidyapeetham, India), Jyothisha J Nair (Amrita Vishwa Vidyapeetham, India) .....	888
<i>Tagging of Research Publications based on Author and Year Extraction</i> Arun Das R (Amrita Vishwa Vidyapeetham, India), Afsal PM (Amrita Vishwa Vidyapeetham, India), MG Thushara (Amrita School of Engineering, Amritapuri & Amrita Vishwa Vidyapeetham, Amrita University, India) .....	892
<i>Efficient Communication in Disaster-hit Areas in Smart Cities using Infrastructure-less networks</i> Annapurna Patil (M S Ramaiah Institute of Technology, India), Amrita Behera (Ramaiah Institute of Technology, India), Anusha P (Ramaiah Institute of Technology, India), Prabhuling Masudi (Ramaiah Institute of Technology, India) .....	897
<i>Primary User Authentication in Cognitive Radio Network Using pre-generated hash digest</i> Muzzammil Hussain (Central University of Rajasthan, India), Tulsi Swami (Central University of Rajasthan, India) .....	903

## ICACCI-24(A): Sixth International Symposium on Women in Computing and Informatics (WCI'18) - regular papers

<i>Gathering of Autonomous Mobile Robots Under Limited Sensing Ranges</i> Sruti Gan Chaudhuri (Jadavpur University, India) .....	909
<i>E-waste Management Using Blockchain based Smart Contracts</i> Neha Gupta (University of Delhi, India), Punam Bedi (University of Delhi, India) .....	915
<i>Optimized QoS Prediction of Web Service using Genetic Algorithm and Multiple QoS Aspects</i> S Subbulakshmi (Amrita University & Amrita School of Engineering, India), Ramar K (Anna University, India), Keerthana Krishna V C (Amrita Vishwa Vidyapeetham, India), Sandra Sanjeev (Amrita Vishwa Vidyapeetham, India) .....	922
<i>Affective State Recognition using Image Cues</i> Lalitha Sreeram (Amrita Vishwa Vidyapeetham & Amrita School of Engineering, India) .....	928

<i>Assigning Sentiment Score for Twitter Tweets</i>	
Srinidhi Bhat (Manipal Institute of Technology, MAHE, India), Saksham Garq (Manipal Institute of Technology, MAHE, India), Poornalatha G. (Manipal Institute of Technology & Manipal Academy of Higher Education (MAHE), India) .....	934
<i>Genetic Algorithms for Vaccination Tour Planning in Tribal Areas in Kerala</i>	
Georq Gutjahr (Amrita Vishwa Vidyapeetham, India), Kamala Kunjamma A S (Amrita Vishwa Vidyapeetham, India), Prema Nedungadi (Amrita Vishwa Vidyapeetham, India) .....	938
<i>Modified Shuffled Multi-Population Bat Algorithm</i>	
Reshu Chaudhary (University of Delhi, India), Hema Banati (University of Delhi & Dyal singh College, India) .....	943
<i>An Implementation of Genetic Algorithm for Clustering Help Desk Data for Service Automation</i>	
Geetha Lekshmy V (Amrita Vishwa Vidyapeetham, India), Anusree P k (Amrita Vishwa Vidyapeetham, India), Varunika V s (Amrita Vishwa Vidyapeetham, India) .....	952
<i>Optimization of Gaussian Membership Functions using Unscented Kalman Filter</i>	
Deepak S (Amrita Vishwa Vidyapeetham, India), Aiswarya R (Amrita Vishwa Vidyapeetham, India), Aparna C (Amrita Vishwa Vidyapeetham, India), Jyothisha J Nair (Amrita Vishwa Vidyapeetham, India) .....	957
<i>A Community Based Web Summarization in Near Linear Time</i>	
Deepa K (Amrita Vishwa Vidyapeetham, Amritapuri, India), G. p. Sajeev (Amrita Vishwa Vidyapeetham & Govt Engineering College, India) .....	962
<i>SFrame: Design &amp; Development of Smart Framework to Port Linux Kernel on ARM Based Raspberry Pi</i>	
Jasleen Kaur (Indira Gandhi Delhi Technical University for women, India), Srn Reddy (Indira Gandhi Delhi Technical University, India) .....	969
<i>Auto-encoder Based Automated Epilepsy Diagnosis</i>	
Sharathappriya V (Amrita School of Engineering & Amrita Vishwa Vidyapeetham, India), Gautham S (Amrita School of Engineering & Amrita Vishwa Vidyapeetham, India), Lavanya R (Amrita School of Engineering & Amrita Vishwa Vidyapeetham, India) .....	976

## ICACCI-24(B): Sixth International Symposium on Women in Computing and Informatics (WCI'18) - regular papers

<i>Ransomware detection by mining API call usage</i>	
Shina Sheen (PSG College of Technology, India), Ashwitha Yadav (PSG College of Technology, India) .....	983
<i>A Novel Collaborative Caching Framework for Peer-to-Peer Networks</i>	
Raqhee Chandran M (Mast Global Lbrands, India), G. p. Sajeev (Amrita Vishwa Vidyapeetham & Govt Engineering College, India) .....	988
<i>R-peak Extraction for Wireless ECG Monitoring System</i>	
Tejal Dave (Gujarat Technological University Gujarat & Sarvajani College of Engineering and Technology, India), Utpal Pandya (Sarvajani College of Engineering and Technology, India) .....	995
<i>Mobile Applications Recommendation Based on User Ratings and Permissions</i>	
Jisha R C (Amrita, India), Ram Krishnan (Amrita Vishwa Vidyapeetham, India), Varun Vikraman (Amrita Vishwa Vidyapeetham, India) .....	1000
<i>Highly Secured Architectural Model for Web based Applications using 2-way Authentication Technique</i>	
Binu P. k. (Amrita University, India), Induja E (Amrita Vishwa Vidyapeetham, India), Monica Earnest (Amrita Vishwa Vidyapeetham, India) .....	1006
<i>PSO based feature selection of gene for cancer classification using SVM-RFE</i>	
Kavitha KR (Amrita Vishwasam Vidyapeetham & Amritapuri, India), Harishankar U Nair (Amrita Vishwa Vidyapeetham, Amritapuri, India), Akhil M C (Amrita Vishwa Vidyapeetham, Amritapuri, India) .....	1012
<i>Anomaly Detection in Role Administered Relational Databases- A Novel Method</i>	
Raji R. (Amrita Vishwa Vidyapeetham, India), Nidhin R (Amrita Vishwa Vidyapeetham, India), Shogil P P (Amrita Vishwa Vidyapeetham, India) .....	1017
<i>A Graph Based Algorithm for Clustering and Ranking Proteins for Identifying Disease Causing Genes</i>	
Indulekha T S (Amrita Vishwa Vidya Peetham, Amritapuri, Kollam, India), Aswathy GS (Amrita Vishwa Vidyapeetham, India), Parvathy Sudhakaran (Amrita Vishwa Vidyapeetham & Amrita University, India) .....	1022
<i>Bi-Histogram Equalization with Adaptive Multi-Plateau Limits for Enhancing Magnetic Resonance Images</i>	
Pournami P N (NIT Calicut, India), Saheeka SD (National Institute of Technology Goa, India) .....	1027
<i>Video Shot Detection based on SIFT Features and Video Summarization using Expectation-Maximization</i>	
Jharna Majumdar (VTU, India), Manish Awale (Nitte Meenakshi Institute of Technology, India), Santhosh Kumar K L (Nitte Meenakshi Institute of Technology, India) .....	1033
<i>Smart Store Assistor for Visually Impaired</i>	
D Devipriya (Amrita Vishwa Vidyapeetham, India), V Sushma Sri (Amrita Vishwa Vidyapeetham, India), Mamatha I (Amrita Vishwa Vidyapeetham & Amrita School of Engineering, India) .....	1038
<i>Significant feature extraction automated framework for cancer diagnosis from bone histopathology images</i>	
Vandana S (KVG College of Engineering, India), Sathyavathi Alva (KVG Medical College, India), Antony J (AJ Institute of Engineering And Technology, India) .....	1046

## ICACCI-02:7th Symposium on Natural Language Processing (NLP'18) - Regular Papers

<i>Location Based Real-time Sentiment Analysis of Top Trending Event Using Hybrid Approach</i> Haripriya A (M S Ramaiah University Of Applied Sciences, India), Santoshi kumari K (M. S. Ramaiah University of Applied Sciences & CSE dept, India), Narendra babu C (M. S. Ramaiah University of Applied Sciences, India) .....	1052
<i>Open-Domain Question Answering using Feature Encoded Dynamic Coattention Networks</i> Sumedh Kale (College of Engineering Pune, India), Aniket Kulkarni (College of Engineering Pune, India), Rohan Patil (College of Engineering Pune, India), Yashodhara Vikrant Haribhakta (College of Engineering Pune, India), Krishnanjan Bhattacharjee (C-DAC, Pune, India), Swati Mehta (C-DAC, Pune, India), Swathi Mithran (C-DAC, India), Ajai Kumar (C-DAC Pune, India) .....	1058
<i>Sentiment Analysis on Interview Transcripts: An application of NLP for Quantitative Analysis</i> Manojkumar Somabhai Parmar (Robert Bosch Engineering and Solutions Limited, India), Bhanurekha Maturi (Cyient, India), Jhuma Mallik Dutt (Independent, India), Hrushikesh Phate (Galaxy Care Hospital, India) .....	1063
<i>Automatic Parallel Corpus Creation for Hindi-English News Translation Task</i> Aditya Kumar Pathak (IIIT Bhubaneswar, India), Priyankit Acharya (IIIT Bhubaneswar, India), Dilpreet Kaur (IIIT Bhubaneswar, India), Rakesh Chandra Balabantaray (IIIT Bhubaneswar, India) .....	1069
<i>Persona Traits Identification based on Myers-Briggs Type Indicator(MBTI) - A Text Classification Approach</i> Srilaakshmi Bharadwaj (PES University, India), Srinidhi Sridhar (PES University, India), Rahul Choudhary (PES University, India), Ramamoorthy Srinath (PES University, India) .....	1076
<i>PESUBot: An Empathetic Goal Oriented Chatbot</i> Hemkesh Vijaya Kumar (PES University, India), Jeevan Naqaraj (PES University, India), Mohammed Irfan (PES University, India), Nilisha Maheshwari (PES University, India), Pooja Balusani (PES University, India), Pratik Chatterjee (PES University, India), Gowri Srinivasa (PESIT Bangalore South Campus & Center for Pattern Recognition, India) .....	1083
<i>Effectiveness of Hierarchical Softmax in Large Scale Classification Tasks</i> Abdul Arfat Mohammed (Ericsson, India), Venkatesh Umaashankar (Ericsson, India) .....	1090
<i>Extracting and Visualising Character Associations in Literary Fiction using Association Rule Learning</i> Varun Naqaraj Rao (PES Institute of Technology, India), Ramadas Mahale (PES Institute of Technology, India), Sunil Pai (PES Institute of Technology, India), Viraj Kumar (Indian Institute of Science, India) .....	1095
<i>Laughter Synthesis using Mass-spring Model and Excitation Source Characteristics</i> Juhitha Konduru (Robert Bosch Engineering and Business Solutions Pvt. Ltd, India), Modh Jay Yoqesh (Robert Bosch Engineering and Business Solutions Pvt Ltd, India), Shashank R. (Razorpay, India), Susmitha Vekkot (Amrita School of Engineering, India), Shikha Tripathi (PES University & Bangalore South Campus, India) .....	1102

## ICACCI-11: 7th Symposium on Natural Language Processing (NLP'18) - Regular Papers

<i>Enhancing Sentiment Analysis Using Domain-Specific Lexicon: A Case Study on GST</i> Subham Yadav (Govt. College of Engineering & Textile Technology, Berhampore, India), Madhulina Sarkar (Government College of Engineering and Textile Technology, India) .....	1109
<i>Query Quality Prediction on Source Code Base Dataset: A Comparative Study</i> Swathi B. P. (Manipal Academy of Higher Education, India), Balachandra Muniyal (Manipal Academy of Higher Education, India) .....	1115
<i>Multilingual Text Detection and Identification from Indian Signage Boards</i> Ramanathan Rahul (Amrita School of Engineering, Amrita Vishwa Vidyapeetham, India), Sreebha Bhaskaran (Amrita University, India), Amudha J (Amrita Vishwa Vidyapeetham, India), Deepa Gupta (Amrita Vishwa Vidyapeetham, India) .....	1120
<i>Sentiment Analysis for Code-Mixed Indian SocialMedia Text With Distributed Representation</i> Shalini K (Amrita Vishwa Vidyapeetham, India), Barathi Ganesh HB (Amrita School of Engineering, India), Anand Kumar M (National Institute of Technology - Karnataka, India), Soman K P (Amrita Vishwa Vidyapeetham, India) .....	1126
<i>A Deep Learning Approach for Part-of-Speech Tagging in Nepali Language</i> Greeshma Prabha (Vidya Academy of Science and Technology, India), Jyothsna P V (Vidya Academy of Science and Technology, India), Shahina K. K (Vidya Academy of Science and Technology, India), Premjith B (Center for Computational Engineering and Networking, Amrita Vishwa Vidyapeetham, India), Soman K P (Amrita Vishwa Vidyapeetham, India) .....	1132
<i>Word Level Language Identification in Code-Mixed Data using Word Embedding Methods for Indian Languages</i> Inumella Chaitanya (Amrita Vishwa Vidyapeetham, India), Indeevar Madapakula (Amrita Vishwa Vidyapeetham, India), Subham Gupta (Amrita Vishwa Vidyapeetham, India), Thara S (Amrita Vishwa Vidyapeetham, India) .....	1137
<i>Hadoop and Natural Language Processing Based Analysis on Kisan Call Center (KCC) Data</i> Vandanapu Kasi Viswanath (Amrita School of Engineering, India), Gayathri Venu Madhuri Chandu (Amrita University Bangalore, India), Chamarthi Raviteja (Amrita School of Engineering, India), S Saravanan (Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Amrita University, India), Manju Venugopalan (Amrita School of Engineering, Bangalore, Amrita Vishwa Vidyapeetham, India) .....	1142
<i>Automatic Singable Tamil lyric generation for a situation and tune based on causal effect</i> Rajeswari Sridhar (College of Engineering, Guindy, Anna University, India), Subasree Venkatsubramaniyen (Anna University, India), Subha Rashmi S (Anna University, India) .....	1152
<i>Handwriting Analysis Through Graphology: A Review</i> Lakshmi Durga (VTU, India) .....	1160

## ICACCI-01: 5th International Symposium on Computer Vision and the Internet (VisionNet'18)

### *Activation Function Optimisations for Capsule Networks*

Gagana B (PES University, India), H A Ujjwal Athri (PES University, India), Natarajan S (PES University, Bengaluru, India, India) ..... 1172

### *Crowd counting and Density Estimation using Multicolumn Discriminator in GAN*

Pankaj Badatia (College of Engineering Pune, India) ..... 1179

### *A highly accurate fire detection method using discriminate method*

Shubhranil Kundu (Madhav Institute of Technology and Science Gwalior, India), Vikas Mahor (Madhav Institute of Technology and Science, India), Rekha Gupta (Madhav Institute of Technology and Science, India) ..... 1184

### *Semantic Deep Image Inpainting*

Nishat Afreen (National Institute of Technology Jamshedpur, India), Shrey Singh (National Institute of Technology Jamshedpur, India), Sanjay Kumar (National Institute of Technology Jamshedpur, India) ..... 1190

### *Classification of High Resolution Remote Sensing Images using Deep Learning Techniques*

Bini Alias (Amrita Vishwa Vidyapeetham, India), R Karthika (Amrita Vishwa Vidyapeetham, India), Latha Parameswaran (Amrita Vishwa Vidyapeetham, India) ..... 1196

### *Notification of Landslide Susceptible Regions Using Satellite Images*

Preethi Harris (Sri Ramakrishna Engineering College, India), Anitha J (Sri Ramakrishna Engineering College, India), Meenakshi M (Sri Ramakrishna Engineering College, India), Pavithra B (Sri Ramakrishna Engineering College, India) ..... 1203

### *Enhanced Deep Image Super-Resolution*

Shrey Singh (National Institute of Technology Jamshedpur, India), Nishat Afreen (National Institute of Technology Jamshedpur, India), Sanjay Kumar (National Institute of Technology Jamshedpur, India) ..... 1207

## ICACCI-07: Sixth Symposium on Control, Automation, Industrial Informatics and Smart Grid (ICAIS'18)

### *Development of Data Acquisition System using non-invasive Hardware and 3D software for Electric all terrain Vehicle*

Saroja Siddamal (KLE Technological University, India), Akshaykumar Sunagar (B. V. B. College of Engineering and Technology, India) ..... 1212

### *Efficient Photovoltaic Solar Panel with Mirror Actuation*

Anjali B S (Amrita Vishwa Vidyapeetham, India), Abhiram Bhuvanendran (Amrita Vishwa Vidyapeetham, India) ..... 1218

### *Design and Implementation of Neural Network Based Non Linear Control System (LQR) For Target Tracking Mobile Robots*

Jharna Majumdar (VTU, India), Sudip Gupta (VTU, India) ..... 1222

### *Fuzzy based MAC Adaptation in Industrial IoT based Sensor Networks*

Manu Elappila (National Institute of Technology Rourkela, India), Suchismita Chinara (National Institute of Technology Rourkela, India), Deepaknath Tandur (ABB, India), Anitha Varghese (ABB, India), Dayal Parhi (National Institute of Technology, India) ..... 1229

### *Queuing Models for Different Caching Schemes by Caching Partial Files*

Vivek Shivaram (PES Institute of Technology, India), Niraj Gupta (PES Institute of Technology, India), Shashank Kamath K M (PES Institute of Technology, India) ..... 1234

### *QR Code based Path Planning for Warehouse Management Robot*

Ravi Pamarthi (Amrita School of Engineering, Bangalore, India), Nippun Kumar Aa (Amrita Vishwa Vidyapeetham, Amrita School of Engineering, India) ..... 1239

### *Energy Efficient Real Time Scheduling on Multi-core Processor with Voltage Islands*

Mayuri Abhijeet Diqalwar (Birla Institute of Technology and Science, India), Pravin Gahukar (Oracle India Ltd, Bangalore, India), Sudeept Mohan (Birla Institute of Technology and Science, Pilani, India) ..... 1245

### *Building a Quadcopter: An approach for an Autonomous Quadcopter*

VNV Aditya Sharma (Amrita School of Engineering Bengaluru, India), Rajesh M (Amrita School of Engineering & Amrita Vishwa Vidyapeetham Bengaluru Campus, India) ..... 1252

### *Comparative Study of Different Current Control Techniques for Single Phase Grid Integrated Photovoltaic System*

Jyoti Laxman Pakhale (Amrita Vishwa Vidyapeetham, India), Mamatha I (Amrita Vishwa Vidyapeetham & Amrita School of Engineering, India) ..... 1259

### *LMI Based design approach for the Stabilization and Tracking of a 3-DOF Remote Controlled Helicopter, Modeled in TP form*

Keerthana Sunil (NIT Calicut, India), Jeevamma Jacob (National Institute of Technology, India) ..... 1267

### *Formal Verification of Datarace in Safety Critical ARINC653 compliant RTOS*

Abhishhek Singh (HAL, Bangalore-INDIA, India), Meenakshi DSouza (IIIT-B, India), Arshad Ebrahim (HAL Bangalore, India) ..... 1273

### *Microgrid Energy Management using Differential Evolution Algorithm*

P G Anilkumar (Kalasalingam, India) ..... 1280

## ICACCI-08: Third Symposium on Emerging Topics in Computing and Communications (SETCAC'18) - Regular Papers

<i>Recognition Techniques in Buddhist Iconography and Challenges</i> Gopa Bhaumik (NIT Sikkim, India), Shefalika Ghosh Samaddar (NIT Sikkim, India), Arun Samaddar (NIT-Sikkim, India) .....	1285
<i>SpreadMax: A Scalable Cascading Model for Influence Maximization in Social Networks</i> Jo Cheriyan (Amrita Vishwa Vidyapeetham & Amritapuri Campus, India), G. p. Sajeev (Amrita Vishwa Vidyapeetham & Govt Engineering College, India) .....	1290
<i>Resource Unit (RU) Based OFDMA Scheduling in IEEE 802.11 ax System</i> Karthik Rm (Mavenir Systems, India), Suja Palaniswamy (Amrita School of Engineering, Amrita Vishwa Vidyapeetham, India) .....	1297
<i>Motion Compensation on Range Doppler Algorithm for Airborne SAR</i> Aditi Moudqalya (Amrita Vishwa Vidyapeetham, India), Peter Joseph Basil Morris (Research and Development & Defence Research and Development Organisation, India), Giriraja C V C V (Amrita Vishwa Vidyapeetham, India) .....	1303
<i>Performance Improvement in Rayleigh Faded Channel using Deep Learning</i> Sriram Ganesh (Amrita Vishwa Vidyapeetham, India), Sayee Sunder Venkatakrishnan (Amrita Vishwa Vidyapeetham, India), Arpita Thakre (Amrita Vishwa Vidyapeetham, Bangalore, India) .....	1307
<i>Delay Reduced Multimedia Transmission in Medical Emergencies</i> Adwitiya Mukhopadhyay (Amrita Vishwa Vidyapeetham, India), Rony Shaji (Amrita Vishwa Vidyapeetham, India), Ashil Raj (Amrita Vishwa Vidyapeetham, India) .....	1313
<i>A JSON Based Healthcare Framework for Remote Areas and Emergency Situations</i> Soumyajit Giri (KIIT University, India), Sujoy Datta (KIIT University, India), Monideepa Roy (KIIT University, India) .....	1320
<i>Rank Aggregation Approach for Identifying Critical Information Infrastructure</i> Shadab Ahmad (University Of Hyderabad & Institute for Development and Research in Banking Technology (IDRBT), India), Lalit Mohan Sanaqavarapu (IIIT Hyderabad & IDRBT, India), Raiarshi Pal (Institute for Development and Research in Banking Technology (IDRBT), Hyderabad, India), Raghu Reddy Y (IIIT Hyderabad, India) .....	1328
<i>Design and trajectory estimation of dynamic motion model</i> Rastrı Dey (KPIT Technologies Limited, India), Soumyo Das (KPIT Technologies Limited, India), Prashantkumar B. Vora (KPIT Technologies Limited, India) .....	1334
<i>Implementation and Design Issues for Augmented Reality Applications on Mobile Platforms</i> Sarthak Gadre (Eduvance, India), Vedashree Rawalqaonkar (Eduvance, India), Mandar Warde (Eduvance, India), Dilip Balasubramanian (Eduvance, India), Ganesh Gore (Eduvance, India), Jonathan Joshi (Vanmat Technologies. Pvt. Ltd, India) .....	1341
<i>AdultSwine: A case study</i> Raima Zachariah (National Institute Of Technology Calicut, India), Akash K (National Institute Of Technology Calicut, India), Mohammed Sajmal Yousef (National Institute Of Technology Calicut, India), Anu Chacko (NIT Calicut, India) .....	1345
<i>Dynamic Macro Numeric Analysis of Fatal Traffic Accident</i> Tsutomu Tsuboi (29-1 Mentoku Shinoda Ama-shi, Aichi, JAPAN & Nagoya Electric Works Co., LTD., Japan) .....	1350
<i>A Novel Fiber-Constrained Protection Scheme for Passive Optical Networks</i> Jitendra Gupta (Indian Institute of Technology, Patna, India), Aneek Adhya (Indian Institute of Technology Patna, India) .....	1358
<i>Novel architectures to enhance QoS in long-reach passive optical networks</i> Jitendra Gupta (Indian Institute of Technology, Patna, India), Aneek Adhya (Indian Institute of Technology Patna, India) .....	1362

## ICACCI-19: Third Symposium on Emerging Topics in Computing and Communications (SETCAC'18) - Regular Papers

<i>Optimal Tour Planning for Measles and Rubella Vaccination in Kochi, South India</i> Georg Gutjahr (Amrita Vishwa Vidyapeetham, India), Chinju Krishnan L (Amrita Vishwa Vidyapeetham, India), Prema Nedungadi (Amrita Vishwa Vidyapeetham, India) .....	1366
<i>Reproducing the firing properties of a cerebellum deep cerebellar nucleus with a multi-compartmental morphologically realistic biophysical model</i> Anandhu Presannan (Amrita Vishwa Vidyapeetham, India), Arathi Rajendran (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, India), Bipin Nair (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, Amrita University, India), Shyam Diwakar (Amrita Vishwa Vidyapeetham, India) .....	1371
<i>Cell Association and Resource Partitioning in 5G Heterogeneous Networks</i> Sherin Naseema M (NIT Calicut, India), Lillykutty Jacob (National Institute of Technology Calicut, India) .....	1376
<i>Algorithmic Approaches for Solving RFID Reader Positioning Problem with Simulated and Real-time Experimental Setups</i> Gurusamy Jeyakumar (Amrita School of Engineering, India), Nagaraju Rubini (Amrita Vishwa Vidyapeetham, Amrita University, India) .....	1383
<i>Analysis of Stock Market using Streaming data Framework</i> KS Umadevi (VIT University, India), Jagadeesh Kannan (VIT University, Chennai Campus, India), Balakrishnan P (SCOPE, VIT University Vellore Campus, India) .....	1388
<i>Characteristics of 'Escaping' and 'Falling into' Poverty in India: An Analysis of IHDS Panel Data using machine learning approach</i> Narendranath Sukhavasi (Amrita School of Engineering, India), Sanqita Khare (Amrita Vishwa Vidyapeetham, India), Deepa Gupta (Amrita Vishwa Vidyapeetham, India), Amalendu Jyotishi (Amrita University, India) .....	1391

<i>Applying Reverse Engineering Techniques to Analyze Design Patterns in Source Code</i>	
Ashish Kumar Dwivedi (Gayatri Vidya Parishad College of Engineering, India), Santanu Kumar Rath (National Institute of Technology Rourkela, India), Shashank Mouli Satapathy (VIT, Vellore, India), Srinivasa Chakravarthy (Gayatri Vidya Parishad College of Engineering, India), Krishna Subba Rao (Gayatri Vidya Parishad College of Engineering, India) .....	1398
<i>Augmenting cloud concepts learning with open source software environment</i>	
Meenaxi Mahabaleshwar Raikar (K L E Technological University, India), Padmashree Desai (KLE Technological University & B V B C E T, India), Vijayalakshmi M (BVBCET, India), Prashant Narayankar (BVBhoomaraddi College of Engineering and Technology, India) .....	1405
<i>Android Dashboard for Past and Present Processes</i>	
Anusuya R (Amrita Vishwa Vidyapeetham, Ettimadai, TN 641105, India, India), Prabhaker Mateti (Wright State University, USA) .....	1412
<i>Minimum Interference Topology Control in Cognitive Radio Networks through Channel Assignment</i>	
Abhinav Ralhan (NIIT University, India), Ram Narayan Yadav (IIT Patna, India), Rajiv Misra (Indian Institute of Technology Patna, India) .....	1418
<i>Computational Enhancement of All Possible Context Generation in Modified-SPEED Algorithm</i>	
Araf Farayez (Universiti Kebangsaan Malaysia, Malaysia), Mamun Bin Ibne Reaz (Universiti Kebangsaan Malaysia, Malaysia), Norhana Arsad (Universiti Kebangsaan Malaysia, Malaysia) .....	1424
<i>Automatic Assessment Item Bank Calibration for Learning Gap Identification</i>	
Sankaran Narayanan (Amrita University, India), Fensa Merry Sai (Research Associate, India), Kamal Bijlani (Amrita E-Learning Research Lab, India), Sreeranga Rajan (Amrita University, India) .....	1429
<i>Construction of Multiplicative Graph Spanners using Minimum Connected Dominating Set with Bounded Diameter</i>	
Praneeth Tatikonda (Amrita School of Engineering, Amritapuri Campus, India), Harsha Kuppili (Amrita School of Engineering, Amritapuri Campus, India), Avinash Paila (Amrita School of Engineering, Amritapuri Campus, India), Jayakumar P (Amrita School of Engineering, Amritapuri Campus, India), Jyothisha J Nair (Amrita Vishwa Vidyapeetham, India) .....	1436
<i>Towards Solving the IoT Standards Gap</i>	
Prabhakar Krishnan (Amrita Center for Cybersecurity Systems and Networks & Amrita University, India), Vivek S (Samsung R&D, India), Divyanshu Verma (Intel, India) .....	1441

## ICACCI-22: Sixth International Symposium on Intelligent Informatics (ISI'18) - Regular Papers

<i>Multi-Objective Accelerated Particle Swarm Optimization Technique for Scientific workflows in IaaS cloud</i>	
Mainak Adhikari (IIT(ISM), Dhanbad, India), Tarachand Amgoth (Indian Institute of Technology (ISM) Dhanbad, India) .....	1448
<i>Sentiment based Food Classification for Restaurant Business</i>	
Shankar Setty (K. L. E. Technological University, Hubballi, India), Sindhu Hegde (KLE Technological University, India), Supriya Satyappanavar (KLE Technological University, India) .....	1455
<i>Performance of Pattern Recognition Algorithms in Identifying Banking Networks</i>	
Arun Sasidharan (Amrita Vishwa Vidyapeetham, India), Prashobhan Palakkeel (Amrita Vishwa Vidyapeetham, India) .....	1463
<i>Text to Image Translation using Generative Adversarial Networks</i>	
Adithya Viswanathan (Peoples Education Society Institute of Technology, India), Bhavin Mehta (Peoples Education Society Institute of Technology, India), Bhavatarini MP (Peoples Education Society Institute of Technology, India), Mamatha H R (P E S University & Visvesvaraya Technological University, India) .....	1468
<i>Identification and grading of free hand sketches using Deep learning techniques</i>	
Chandan C G (PES University, India), Suraksha S (PES University, India), Deepika M M (PES University, India), Mamatha H R (P E S University & Visvesvaraya Technological University, India) .....	1475
<i>Curious to Click It?-Identifying Clickbait using Deep Learning and Evolutionary Algorithm</i>	
Saumya Pandey (University of Melbourne, Australia), Gagandeep Kaur (Jaypee Institute Of Information Technology, India) .....	1481
<i>Implementation of Artificial Neural Network on Raspberry Pi for Signal Processing Applications</i>	
Vishwanath Bharadwaja (Amrita School of Engineering, India), Ananmy R (Amrita University, India), Saraff Nikhil (Amrita University, India), Vineetha K. V. (Amrita University, Bengaluru Campus, India), Jalpa Shah (Amrita School of Engineering, India), Dhanesh G. Kurup (Amrita University, Bengaluru Campus, India) .....	1488
<i>ARGoS based implementation of a multi-robot coordination algorithm</i>	
Amar Nath (IIT Roorkee, India), Arun AR (IIT Roorkee, India), Rajdeep Niyogi (Indian Institute of Technology Roorkee, India) .....	1492
<i>An Effective Method For Hardware Multiplication Using Vedic Mathematics</i>	
Sujina S (Amrita School of Engineering, Amrita Vishwa Vidyapeetham, India), Remya R (Amrita Vishwa Vidyapeetham, India) .....	1499
<i>A Hybrid Decision Support Model for Type II Diabetes</i>	
Sheik Abdullah A (Thiagarajar College of Engineering, India), Selvakumar S (GKM College of Engineering and Technology, India), Parkavi Ravi (Anna University, India), Rishi Kumar V (Thiagarajar College of Engineering, India), Venkatesh M (Theni Government Medical College and Hospital, India) .....	1505
<i>Fuel Price Prediction Using RNN</i>	
Chaitanya Lahari M (PES Institute of Technology, India), Dhakate Hardik Ravi (PES Institute of Technology, India), Bharathi R (PES Institute of Technology, India) .....	1510

# ICACCI-18: Third Symposium on Advances in Applied Informatics (SAI'18)

<i>A Multi-Classifer Approach on L1-Regulated Features of Microarray Cancer Data</i>	
Guesh Dagnev (Mangalore University, India), B H Shekar (Mangalore University, India)	1515
<i>Experimental Recording and Computational Analysis of EEG signals for a Squeeze Task: Assessments and Impacts for Applications</i>	
Maya Krishnan (Amrita Vishwa Vidyapeetham, India), Liya Edison (Amrita Vishwa Vidyapeetham, India), Rakhi Radhamani (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, Amrita University, India), Nijin Nizar (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, Amrita University, India), Dhanush Kumar (Development Engineer, India), Manjusha Nair (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham & Amrita School of Engineering, Amritapuri, Amrita University, India), Bipin Nair (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, Amrita University, India), Shyam Diwakar (Amrita Vishwa Vidyapeetham, India)	1523
<i>Experimental Recording and Assessing Gait Phases Using Mobile Phone Sensors and EEG</i>	
Abhijith Balachandran (Amrita Vishwa Vidyapeetham, India), Chaitanya Nutakki (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, Amrita University, India), Sandeep Bodda (Amrita Vishwa Vidyapeetham, Amrita University, India), Shyam Diwakar (Amrita Vishwa Vidyapeetham, India), Bipin Nair (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, Amrita University, India)	1528
<i>Diagnosis of Cardiotocography For Analysis and Prediction of Treatment During Pregnancy</i>	
Mamatha Bai B G (Nitte Meenakshi Institute of Technology, India), Harshitha R (Nitte Meenakshi Institute of Technology, India), Jharna Majumdar (VTU, India)	1533
<i>Factors Influencing Consumer Responses to Marketing Gamification</i>	
Bhupesh Raj (Amrita Vishwa Vidyapeetham, India), Deepak Gupta (Amrita School of Business & ASB, India)	1538
<i>The Social Travelers: Factors Impacting Influence of Location Sharing In Social Media On Motivation To Travel</i>	
Asvika VS (Amrita Vishwa Vidyapeetham, India), Deepak Gupta (Amrita School of Business & ASB, India)	1543
<i>Virtual Laboratories in Biotechnology are Significant Educational Informatics Tools</i>	
Rakhi Radhamani (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, Amrita University, India), Arathy Divakar (Amrita Vishwa Vidyapeetham, India), Athira Nair (Amrita Vishwa Vidyapeetham, India), Asha Sivasdas (Amrita Vishwa Vidyapeetham, India), Garqi Mohan (Amrita Vishwa Vidyapeetham, India), Nijin Nizar (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, Amrita University, India), Bipin Nair (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, Amrita University, India), Krishnashree Achuthan (Amrita Center for Cybersecurity Systems and Networks & Amrita University, India), Shyam Diwakar (Amrita Vishwa Vidyapeetham, India)	1547
<i>Mathematical Models as Bioscience Educational Informatics Tools</i>	
Dhanush Kumar (Development Engineer, India), Pratheeksha Subramanyan (Amrita Vishwa Vidyapeetham, India), Amitha Prasad (Amrita Vishwa Vidyapeetham, India), Athira Kaimal (Amrita Vishwa Vidyapeetham, India), Aiswarya Santhosh (Amrita Vishwa Vidyapeetham, India), Bipin Nair (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, Amrita University, India), Krishnashree Achuthan (Amrita Center for Cybersecurity Systems and Networks & Amrita University, India), Shyam Diwakar (Amrita Vishwa Vidyapeetham, India)	1552
<i>Prediction Models for Identification and Diagnosis of Tomato Plant Diseases</i>	
Shradha Verma (GGSIPIU, Delhi, India), Anuradha Chug (Guru Gobind Singh Indraprastha University, India), Amit Prakash Singh (Guru Gobind Singh Indraprastha University, India)	1557
<i>Novel technique for estimating Quiet Breathe Rate and Strength</i>	
Rakesh Mishra (Feroze Gandhi Institute of Engineering & Technology, GB University, India), Sagar Sharma (Feroze Gandhi Institute of Engineering and Technology, India)	1564
<i>V Score - A Data Analytical Versatility Metric For Cricket</i>	
Sreedhar Radhakrishnan (PES University, India), Chittaranjan Velambur (PES University, India), Kavi Mahesh (Indian Institute of Information Technology, Dharwad, India)	1569
<i>Sangati - A Social Event Web approach to Index Videos</i>	
Anjana Anil Kumar (PES Institute of Technology, India), Anusha Sreenivasan (PES Institute of Technology, India), Animesh Sahay (PES Institute of Technology, India), Dilip Gurumurthy (PES University, India), Nirupama Padmanabha (PES University, India), Subramaniam Kalambur (PES University, India), Dinkar Sitaram (PES University, India), Ramesh Jain (UC Irvine, USA)	1574
<i>Emergency Healthcare Enhancement by Multi-Iterative Filtering of Service Delivery Centers</i>	
Adwitiya Mukhopadhyay (Amrita Vishwa Vidyapeetham, India), Suraj M (Amrita University, India), Sidharth Sreekumar (Amrita Vishwa Vidyapeetham, India), Bobin Xavier (Amrita Vishwa Vidyapeetham, India)	1581
<i>Eye Gaze as an Indicator for Stress Level Analysis in Students</i>	
Jyotsna C (Dept. of Computer Science & Engineering, Amrita School of Engineering, Bengaluru, Amrita Vishwa Vidyapeetham, India, India), Amudha J (Dept. of Computer Science & Engineering, Amrita School of Engineering, Bengaluru, Amrita Vishwa Vidyapeetham, India, India)	1588
<i>Capacity Analysis of Correlated MIMO in GEOSAT Downlink Land Mobile System</i>	
Jaiyant Gopal S (Amrita Vishwa Vidyapeetham, India), Ramnarayan J (Amrita Vishwa Vidyapeetham, India), Kirthiga S (Amrita Vishwa Vidyapeetham & Amrita School of Engineering, India), Jayakumar M (Amrita Vishwa Vidyapeetham, India), Nirmala Devi (Amrita University, India), Gandhiraj R (Amrita Vishwa Vidyapeetham, India), Subhash Bera (Space Applications Centre & ISRO, India)	1594



# ICACCI-10: 2nd Symposium on Recent Advances in Communication Theory, Information Theory, Antennas and Propagation (CIAP'18) - Regular Papers

<i>A Particle Swarm approach to target detection in MIMO radar</i> Saravanamuthu Karikalacholan (Amrita Vishwa Vidyapeetham, India), Ramanathan R (Amrita Vishwa Vidyapeetham, India) .....	1601
<i>High Performance Dual Circularly Polarized Microstrip Patch Antenna for Satellite Communication</i> Sahana C (Amrita University & Amrita Vishwa Vidyapeetham(University), Coimbatore, India), Jayakumar M (Amrita Vishwa Vidyapeetham, India), Senthil Kumar (ISRO, India) .....	1608
<i>Isolation Enhancement of Patch Antenna Array Using Open Loop Resonator</i> Uday Krishnan (Amrita Vishwa Vidyapeetham, India), Arjun Muralidharan (Amrita Vishwa Vidyapeetham, India), Bharath Krishnan (Amrita Vishwa Vidyapeetham, India), Sreedevi Menon (Amrita Vishwa Vidyapeetham & Amrita Vishwa Vidyapeetham, India) .....	1612
<i>A Comparison of AFDX and 1553B Protocols Using Formal Verification</i> Ranjani Krishnan (Vikram Sarabhai Space Centre, India) .....	1617
<i>Compact tunable dual-band bandpass filter using Edge-open Split Ring Resonators for X-Band Applications</i> Sushmeetha R r (Amrita University, Coimbatore & Amrita School of Engineering, Coimbatore, India), Natarajamani S (Amrita Vishwa Vidyapeetham- Coimbatore, India) .....	1624
<i>A Circularly-polarized Patch Antenna using Pin-loaded Technique with PSO</i> Shobith Narayanan (Amrita University, India), Ajay Krishna Manoj (Amrita Vishwa Vidyapeetham, India), Natarajamani S (Amrita Vishwa Vidyapeetham- Coimbatore, India) .....	1627
<i>Filtered OFDM with Index Modulation</i> Arpita Thakre (Amrita Vishwa Vidyapeetham, Bangalore, India), Lavanya Girish (Amrita University, India) .....	1631
<i>Macromodeling of High Frequency Interconnects Based on Accurate Delay Identification</i> Aswini P Reqhu (Amrita University, India), Sanjika Devi R V (Amrita University, India), Vrinda K (Amrita School of Engineering, India), Dhanesh G. Kurup (Amrita University, Bengaluru Campus, India) .....	1636
<i>A Compact TEM Horn Antenna for Ground Penetrating Radar</i> Neda Rojhani (University of Florence, Italy), Massimiliano Pieraccini (University of Florence, Italy), Samineh Sarbazi Golazari (south Tehran Branch Azad University, Iran) .....	1641
<i>Detection of Ruptures in Pipeline Coatings Using Split Ring Resonator Sensor</i> Nishkala K (Amrita Vishwa Vidyapeetham, India), B Toshitha Royan (Amrita Vishwa Vidyapeetham, India), H M Aishwarya Aishwarva (Amrita Vishwa Vidyapeetham, India), Sanjika Devi R V (Amrita Vishwa Vidyapeetham, India), Dhanesh G. Kurup (Amrita University, Bengaluru Campus, India) .....	1646
<i>Triple Band Antenna for 5G Applications</i> Amrutha G M (NSS College of Engineering, India), Sudha T (University of Calicut, India) .....	1650
<i>A Modified Frequency Selective Surface Band-stop Filter for Ultra-wideband Applications</i> Umair Rafique (Capital University of Science and Technology, Pakistan), Shobit Agarwal (The LNM Institute of Information Technology, India) .....	1653
<i>Broadband Slotted Ground Square Patch Microstrip Antenna for Wireless Applications</i> Guna Ram (Govt Engineering College, Ajmer, India), Vijay Sharma (Govt. Mahila Engineering College, Ajmer, Rajasthan, INDIA, India) .....	1657
<i>Wide-band meander line MIMO antenna for wireless applications</i> Leeladhar Malviya (India, India), Karan Gehlod (S G S I T S, India), Ashish Shakya (S G S I T S, India) .....	1663

# ICACCI-25: Symposium on Signal Processing for Wireless and Multimedia Communications (SPWMC'18)

<i>User Defined Encryption Procedure For IDEA Algorithm</i> Prajwal Vs (Manipal Academy of Higher Education, India), Prema Kv (Manipal University, India) .....	1668
<i>Design and Analysis of Circularly Polarized Defected Ground Elliptical Patch Antenna for Long Term Evolution (LTE) and 4G Wireless Applications</i> Guna Ram (Govt Engineering College, Ajmer, India), Vijay Sharma (Govt. Mahila Engineering College, Ajmer, Rajasthan, INDIA, India) .....	1672
<i>Image Registration using Hampel and Modified Hampel M-estimators</i> Rajeev Kumar Kanneqanti (University College of Engineering Kakinada, India), Vinay Kumar Pamula (University College of Engineering Kakinada & Jawaharlal Nehru Technological University Kakinada, India) .....	1678
<i>Multidimensional Data Model for Air Pollution Data Analysis</i> Harishkumar Kushtagi Shetra (Mangalore University, India), Hosahalli Doreswamy (Mangalore University, India) .....	1684
<i>Audio-Internet [A-I]: A Novel Technique for Streaming [Bits-over-Sound]*</i> Vijay Kanade (Evalueserve SEZ (Gurgaon) Private Limited Sector-48 Gurgaon-122002 Haryana, India) .....	1690
<i>A novel approach for cloud service composition ensuring global QoS constraints optimization</i> Rashda Khanam (IIT(ISM) DHANBAD, India), Rakesh Ranjan Kumar (Indian Institute of Technology (ISM), Dhanbad, India), Binita Kumari (GGSESTC, Bokaro, India) .....	1695

<i>Performance Enhancement of a Series Active Power Filter using Kalman Filter based Neural Network Control Strategy</i> Aravind Ravikumar (Amrita Vishwa Vidyapeetham, India), Neethu Mohan (Amrita Vishwa Vidyapeetham, India), Soman K P (Amrita Vishwa Vidyapeetham, India) .....	1702
<i>Data Hiding Scheme in Quad Channel Images using Square Block Algorithm</i> Kusu Manikanta Venkata Sai (Amrita Vishwa Vidyapeetham,Amritapuri,India, India), Ramineni Manideep (Amrita Vishwa Vidyapeetham,Amritapuri,India, India), M Vinay Chowdary (Amrita Vishwa Vidyapeetham,Amritapuri,India, India), Deepthi L R (Amrita Vishwa Vidyapeetham,Amritapuri,India, India) .....	1707
<i>Compact Low Cost Passive RFID Tag for Object Tracking</i> A Karthik (Amrita Viswa Vidyapeetham, Amritapuri, India), Aiswarya S (Amrita Vishwa Vidyapeetham, Amrita University, India), Sreedevi Menon (Amrita Vishwa Vidyapeetham & Amrita Vishwa Vidyapeetham, India) .....	1711
<i>High performance square spiral inductor for 65nm CMOS V-band Low Noise Amplifier</i> Koushik Murali Subramani (Amrita Vishwa Vidyapeetham, India), Gopi Tharun Maqanti (Amrita Vishwa Vidyapeetham, India), Gowri Jeqatheesh M (Amrita Vishwa Vidyapeetham, India), Yarra Aloksh Krishnaa (Amrita Vishwa Vidyapeetham, India), Karthigha Balamurugan (Amrita Vishwa Vidyapeetham, India) .....	1715

## ICACCI-33: Symposium on Assistive Technologies for the Differently Abled (ATDA'18)

<i>Environment Descriptor for the Visually Impaired</i> Ankush A Mishra (PES Institute of Technology, South Campus, India), C Madhurima (Pesit, India), Gautham Sai M R (Pesit, India), Jishin James (Pesit, India), Annapurna D (PES Institute of Technology, India) .....	1720
<i>Assistive Technology for the Visually Impaired Using Computer Vision</i> Megha Arakeri (Ramaiah Institute of Technology, India), Keerthana N S (Ramaiah Institute of Technology, India), Madhura M (Ramaiah Institute of Technology, India), Anusha Sankar (Ramaiah Institute of Technology, India), Tazeen Munnavar (Ramaiah Institute of Technology, India) .....	1725
<i>Personality Identification Using Auditory Nerve Modelling of Human Speech</i> Lalitha Sreeram (Amrita Vishwa Vidyapeetham & Amrita School of Engineering, India), Gokul K (Amrita Vishwa Vidyapeetham, India) .....	1731
<i>Automated Screening for Trisomy 21 by measuring Nuchal Translucency and Frontomaxillary Facial angle</i> Lakshmi S (Amrita Vishwa Vidyapeetham, Amrita University, India), M Geetha (Amrita University, Amritapuri, Kollam India Clappana P O, India), Neeraja Menon (Amrita Vishwa Vidyapeetham, India), Vivek Krishnan (Amrita Vishwa Vidyapeetham, India), Prema Nedungadi (Amrita Vishwa Vidyapeetham, India) .....	1738
<i>Design of a Tactile Braille Cell</i> Sai Bharath Reddy (Amrita Vishwavidyapeetham, India), Ritwik Rohan (Amrita Vishwavidyapeetham, India), Gopa Alvina (Amrita Vishwa Vidyapeetham, India), Giriraja C V C V (Amrita Vishwa Vidyapeetham, India) .....	1744
<i>Estimating Gap Detection Threshold and Comodulation Masking Release (Uncomodulated Noise Bands) on Android</i> Gaurang Prasad (Manipal Institute of Technology, India, India), Sampath Kumar (Manipal Institute of Technology, India, India), Kishan M (School of Allied Health Sciences, India, India), Hareesha KS (Manipal Institute of Technology, India, India), Poornima Kundapur (Manipal Institute of Technology, India, India) .....	1748
<i>Kannada Speech Recognition System for APHASIC People</i> Hareesha KS (Manipal Institute of Technology & Manipal University, India), Poornima Kundapur (Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, India), Sampath Kumar (Manipal Institute of Technology, Manipal & Manipal University, India), Jaya Aishwarya (Manipal Institute of Technology, India) .....	1753
<i>Speech Recognition and Correction of a Stuttered Speech</i> Ankit Dash (PES University, India), Nikhil Subramani (PES University, India), Tejas Manjunath (PES University, India), Vishruti Yaragarala (PES University, India), Shikha Tripathi (PES University, Bangalore, India, India) .....	1757
<i>Automated Public Bus Identification System for Visually Impaired</i> Chetan Kaushik (University of Delhi, India), Sudesh Kumar (University of Delhi, India), Saurav Gandhi (Santa Clara High School, Santa Clara, California, USA, USA), Niketa Gandhi (Machine Intelligence Research Labs (MIR Labs), Auburn, Washington, USA, USA), Nikhil Kumar Rajput (University of Delhi, India) .....	1761
<i>A CMUcam5 Computer Vision Based Arduino Wearable Navigation System for the Visually Impaired</i> Saurav Gandhi (Santa Clara High School, Sunnyvale, California, USA, USA), Niketa Gandhi (Machine Intelligence Research Labs (MIR Labs), Auburn, Washington, USA, USA) .....	1768

## ICACCI-26: Workshop on Modeling and Machine Learning in Astronomy

<i>A Comparative Analysis of the Cobb-Douglas Habitability Score (CDHS) with the Earth Similarity Index (ESI)</i> Suryoday Basak (University Of Texas Arlington, USA), Surbhi Agrawal (PES University, India), Kakoli Bora (PES University, India), Jayant Murthy (Indian Institute of Astrophysics, India) .....	1775
<i>A New Activation Function for Artificial Neural Net Based Habitability Classification</i> Snehanshu Saha (PES University, India), Archana Mathur (Indian Statistical Institute, India), Kakoli Bora (PES University, India), Suryoday Basak (University Of Texas Arlington, USA), Surbhi Agrawal (PES University, India) .....	1781

# ICACCI-30: Sixth International Symposium on Intelligent Informatics (ISI'18)/NLP'18 - Short Papers

<i>Comparing the Performance of Neural and Statistical Sentence Embeddings on Summarization and Word Sense Disambiguation</i> Gaurav Juvekar (College of Engineering, Pune, India), Abhishek Lolaqe (College of Engineering, Pune, India), Dhruva Sahasrabudhe (College of Engineering, Pune, India), Yashodhara Vikrant Haribhaktta (College of Engineering Pune, India) .....	1787
<i>Text Summarization of Spanish Documents</i> KS Umadevi (VIT University, India), Jagadeesh Kannan (VIT University, Chennai Campus, India), Balakrishnan P (SCOPE, VIT University Vellore Campus, India) .....	1793
<i>Graph-based Question Answering System</i> Piyush Mital (College of Engineering, Pune, India), Saurabh Agrawal (College of Engineering, Pune, India), Bhargavi Neti (College of Engineering, Pune, India), Yashodhara Vikrant Haribhaktta (College of Engineering Pune, India), Vibhavari Kamble (College of Engineering Pune, India), Krishnanjan Bhattacharjee (C-DAC, Pune, India), Debarshi Das (C-DAC Pune, India), Swati Mehta (C-DAC, Pune, India), Ajai Kumar (C-DAC Pune, India) .....	1798
<i>NLP Based Latent Semantic Analysis for Legal Text Summarization</i> Kaiz Merchant (Dwarkadas J. Sanghvi College of Engineering, India), Yash Pande (Dwarkadas J. Sanghvi College of Engineering, India) .....	1803
<i>DNN-based Bilingual (Telugu-Hindi) Polyglot Speech Synthesis</i> M Kiran Reddy (Indian Institute of Technology Kharagpur, India), K. Sreenivasa Rao (IIT KGP, India) .....	1808
<i>English Multi-Word Expressions: A Tagset for Health Domain</i> Srishti Singh (Jawaharlal Nehru University, India), Girish Nath Jha (Jawaharlal Nehru University, India) .....	1812
<i>A novel approach for handwriting recognition in Malayalam manuscripts using contour detection and Convolutional Neural Nets</i> Dhanya Sudarsan (Muthoot Institute of Technology & Science, India), Shelbi Joseph (Cochin University, India) .....	1818
<i>Comparison of Machine Learning Algorithms for Skin Disease Classification Using Color and Texture Features</i> Parameshwar R Hegde (Yenepoya University, India), Manjunath M Shenoy (Yenepoya University, India), B H Shekar (Mangalore University, India) .....	1825
<i>Credit Scoring Model based on Kernel Density Estimation and Support Vector Machine for Group Feature Selection</i> Xingzhi Zhang (Southwest University, P.R. China), Zhurong Zhou (Southwest University, P.R. China) .....	1829
<i>Multi neural network model for product recognition and labelling</i> Sai Neeraj Kanuri (PES University, India), Samarth Navali (PES University, India), S Rahul Ranganath (PES University, India), Nitin Pujari (PES Institute of Technology, India) .....	1837
<i>Classification of Urban Data using Satellite Imaging</i> Akarsh Bolar (PES University, India), Rohan Kanuri (PES University, India), Skanda Shrihari (PES University, India), Natarajan S (VTU, India), Kannan Nagajothi (RRSC - South, India) .....	1843
<i>Real Time Analysis of Crowd Behaviour for Automatic and Accurate Surveillance</i> Eddla Latha (Osmania University & CBIT, India) .....	N/A

# ICACCI-28: Signal/Image/speech Processing/Computer Vision/Embedded Systems/CIAP'18 (Short Papers)

<i>Framework for simulating and testing different display topologies</i> Greeshma VK (SJCE, JSS Science and Technology University, India), Gayathri S (SJCE, Mysore, India) .....	1854
<i>Frequency Diversity Antenna for WLAN Applications</i> Ravindra Patil (Savitribai Phule Pune University, India), Sohan Gurame (Savitribai Phule Pune University, India) .....	1859
<i>A Novel Star-shaped Dipole Antenna with inset feed for Base Station Application</i> Gunjan Parihar (Goa College of Engineering, Ponda, Goa, India), Milind Fernandes (Goa University, India) .....	1863
<i>Quantum Spider Monkey Optimization (QSMO) Algorithm for Automatic Gray-Scale Image Clustering</i> Siddhartha Bhattacharyya (RCC Institute of Information Technology, India), Vaclav Snašel (VSB - Technical University of Ostrava, Czech Republic), Alokanda Dey (RCC Institute of Information Technology, India), Sandip Dey (OmDayal Group of Institutions, India), Debanjan Konar (Sikkim Manipal Institute of Technology & Sikkim Manipal University, India) .....	1869
<i>RTC based solar power multi-level Inverter</i> Geevarghese Mathew Kurian (Kalasalingam, India) .....	1875
<i>Impact of Mobility and Transmission Range on Transmission's Probability of Success and Contention in ITS</i> Adarsh Patel (Maulana Azad National Institute of Technology (MANIT), Bhopal, India), Praveen Kaushik (Maulana Azad National Institute of Technology, India) .....	1881
<i>VoLTE Cell Capacity Estimation Using AMR-WB Codec</i> Rajiv Senapati (IIIT Bhubaneswar, India), Hemanta Kumar Pati (IIIT Bhubaneswar, India) .....	1885
<i>Amplifier and Doppler Effect on PSK modulated signals in Inter- Satellite Communication</i> Pasi Kishore (Space, India) .....	1890
<i>Power And Delay Efficient Exact Adder For Approximate Multiplier</i> Kavipranesh V v (Amrita School of Engineering, India), Janarthanan J (Amrita School of Engineering, India), Naga Amruth T (Amrita School of Engineering, India), Harisuriya T m (Amrita School of Engineering, India), Prabhu E (Amrita Vishwa Vidyapeetham University, India) .....	1896

*Sleep Pattern Monitoring and Analysis to Improve the Health and Quality of Life of People*

Sainath Y (Amrita School of Engineering, Bengaluru, Amrita Vishwa Vidyapeetham, India), Konanki Pruthvisai (Amrita School of Engineering, Bengaluru, Amrita Vishwa Vidyapeetham, India, India), Rajesh Akhil (Amrita School of Engineering, Bengaluru, Amrita Vishwa Vidyapeetham, India), Suja Palaniswamy (Amrita School of Engineering, Amrita Vishwa Vidyapeetham, India) .....	1900
<i>Implementation and Testing of Cyber Physical System in Laboratory for Precision Agriculture</i>	
Dhanesh G. Kurup (Amrita University, Bengaluru Campus, India), Vrinda K (Amrita School of Engineering, India), Gayathri Narayanan (Amrita Vishwa Vidyapeetham-AMRITA University, India), Chiranjeevi Sai Ram (Amrita Vishwa Vidyapeetham, India), Srikanth Devulapalli (Amrita School of Engineering, India), T Srikanth Reddy (Amrita Vishwa Vidyapeetham, India) .....	1906

## ICACCI-29: Third Symposium on Emerging Topics in Computing and Communications (SETCAC'18) - short papers

*Fault Identification System for Motor Cycle Using Malfunction Indicator Lamp LED Blinking Frequency Detection on Mobile Device*

Monish Sanjay Kedambadi (Robert Bosch Engineering and Business Solutions Private Limited, India), Manojkumar Somabhai Parmar (Robert Bosch Engineering and Solutions Limited, India), Sagar Aswin Doshi (Robert Bosch Engineering and Business Solutions Private Limited, India) .....	1909
<i>Security with IP Address Assignment and Spoofing for Smart IOT Devices</i>	
Rajashree S (Jain University, India), Soman K s (VMware, India), Pritam Gajkumar Shah (Jain University India, India) .....	1914
<i>Performance Analysis of MC-CDMA based Underwater Wireless Sensor Network</i>	
Md Murshedul Arifeen (Bangladesh University of Professionals, Bangladesh), Zarin Tasnim (Bangladesh University of Professionals, Bangladesh), M Shamim Kaiser (Jahangirnagar University & ACS Research Lab, Bangladesh), Mufti Mahmud (Nottingham Trent University, United Kingdom (Great Britain)) .....	1919
<i>Performance Evaluation of Advanced Classification Models on Spatial Location Based Shimmer2 Sensor Data Sets</i>	
Yogesh KM (University of Mangalore, India), Hosahalli Doreswamy (Mangalore University, India) .....	1925
<i>Joint Subchannel and Power Allocation Optimization in Heterogeneous Networks</i>	
Mussab El-Haran (Multimedia University, Malaysia), Wooi-Nee Tan (MMU, Malaysia), Ayman A. El-Saleh (A'Sharqiyah University (ASU), Oman), Siva Priya Thiagarajah (Multimedia University, Malaysia) .....	1932
<i>Dual-Objectives Mobile-RPL Routing Protocol Based QoS Data Gathering over Low Power Lossy Networks for Smart City Applications: DMRPL</i>	
Kunal Gs (Mangalore University, India), Hosahalli Doreswamy (Mangalore University, India) .....	1938
<i>Obtaining the upper bound on the number of non-dominated fronts in a Population</i>	
Sumit Mishra (Indian Institute of Information Technology Guwahati, India), Sriparna Saha (IIT Patna & Department of CSE, India), Samrat Mondal (IIT Patna, India) .....	1947
<i>Preventing Information Leakage from Encoded Data in Lattice Based Cryptography</i>	
Aarti Dadheech (JNVU, India) .....	1952
<i>Traceability Management with Impact Analysis in DevOps based Software Development</i>	
Iresha Rubasinghe (University of Moratuwa, Sri Lanka), Dulani Meedeniya (University of Moratuwa, Sri Lanka), Indika Perera (University of Moratuwa, Sri Lanka) .....	1956
<i>Evolution of SIM Cards - What's Next?</i>	
Deepu George Koshy (Amrita University, Amritapuri, India), Sethuraman N Rao (Amrita Vishwa Vidyapeetham, India) .....	1963
<i>On-demand Virtual Machine Placement in Infrastructure Cloud</i>	
Madnesh K. Gupta (Indian Institute of Technology ( Indian School of Mines), Dhanbad, India), Ankit Jain (Indian Institute of Technology ( Indian School of Mines), Dhanbad, India), Tarachand Amgoth (Indian Institute of Technology (Indian School of Mines), Dhanbad, India) .....	1968

## ICACCI-27: First Symposium on Social Media Analytics, Fintech, Healthcare and Corporate Social Responsibility Management - CSRTECH2018

*Characteristics of Corporate Wilful Default*

Krishna Govind (Amrita University, India), Bhawana Jain (Amrita School of Business, Coimbatore Amrita Vishwa Vidyapeetham Amrita University India, India) .....	1975
<i>An Ensemble Stock Predictor and Recommender System</i>	
Manoj S Hegde (PES University, India), Ganesh Krishna (PES University, India), Ramamoorthy Srinath (PES University, India) .....	1981
<i>Enhancing the Quality of Processes in Healthcare in India</i>	
Maria Sabastin Saqayam (Amrita Vishwa Vidyapeetham, India), Aravind Menon (Amrita Vishwa Vidyapeetham, India), Shekar Babu (Amrita Vishwa Vidyapeetham, India) .....	1986
<i>Chrome Extension For Malicious URLs detection in Social Media Applications Using Artificial Neural Networks And Long Short Term Memory Networks</i>	
Shivanqi S (PES University Electronic City Campus, India), Pratyush Debnath (PES University Electronic City Campus, India), Sajeevan K (PES University Electronic City Campus, India), Annapurna D (PES Institute of Technology, India) .....	1993
<i>Performance of mandated Corporate Social Responsibility of Indian Companies</i>	
Manasaa Seshadri (Amrita Vishwa Vidyapeetham, India), Prabhavathi K (Amrita Vishwa Vidyapeetham & Amrita University, Bangalore, Karnataka, India), Shekar Babu (Amrita Vishwa Vidyapeetham, India) .....	1998

*Use of Social Media by Apparel Brands in India*

Sai Hemanth Kumar (Amrita Vishwa Vidyapeetham, India), Shekar Babu (Amrita Vishwa Vidyapeetham, India) .....	2005
<i>Performance and Purchasing effects of Healthcare Supply Chain</i>	
Maria Sabastin Saqayam (Amrita Vishwa Vidyapeetham, India), Shijith Kumar PM (IE Business School, Madrid, Spain), Aravind Janardhanan (Amrita Vishwa Vidyapeetham, India), Lakshmi Sanjeev (Amrita Vishwa Vidyapeetham, India) .....	2011

## ICACCI-31: Artificial Intelligence and Machine Learning/Distributed Systems/Applied Informatics/Industry Track (Short Papers)

*GLEnc Algorithm To Secure Data In Public Cloud Environment*

Lalu P. George (Bharathidasan University & JAMAL MOHAMED COLLEGE, India), D I George Amalarethnam (Bharathidasan University, India), Anjana S Chandran (Mahatma Gandhi University, India) .....	2018
<i>Analysis of Data Hiding Methods in Image Steganography</i>	
Akshay KC (Manipal Academy of Higher Education, India), Balachandra Muniyal (Manipal Academy of Higher Education, Manipal, India) .....	2023
<i>Spectral Correlations in Speaker-Listener Behavior During a Focused Duo Conversation using EEG</i>	
Hemalatha Sasidharakurup (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, Amrita University, India), Chaitanya Nutakki (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, Amrita University, India), Arathi Rajendran (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, India), Parvathy Venuqopal (Amrita Vishwa Vidyapeetham, India), Mahima Sumon (Amrita Vishwa Vidyapeetham, India), Lavanya Navaneethkumar (Amrita Vishwa Vidyapeetham, India), Haneema Madhu (Amrita Vishwa Vidyapeetham, India), Bipin Nair (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, Amrita University, India), Shyam Diwakar (Amrita Vishwa Vidyapeetham, India) .....	2028
<i>Wearable devices and medical monitoring robot software to reduce costs and increase quality of care</i>	
Marta Bez (Universidade FEEVALE, Brazil), Franco Simini (Universidad de la Republica, Uruguay) .....	2033
<i>A Hybrid Approach of Text Summarization Using Latent Semantic Analysis and Deep Learning</i>	
Chintan Shah (Gujarat Technological University, India), Anjali Ganesh Jivani (The Maharaja Sayajirao University of Baroda, India) .....	2039
<i>IoT-Mobile Enabled Smart Water Level Controlling System to Regulate Water Wastage</i>	
Siddhartha Shankar (BMS College of Engineering, India), Mallaiah Dakshayini (BMSCE, India) .....	2045
<i>Comparative Analysis of IoT protocols for a Marine IoT System</i>	
Meera M S (Masters STUDENT in Wireless Networks And Applications, India), Sethuraman N Rao (Amrita Vishwa Vidyapeetham, India) .....	2049
<i>Optimized Resource Allocation and Load Balancing in Distributed Cloud using Graph Theory</i>	
Lakshmi Iswara Chandra Vidyasaqar (LaGuardia Community College, CUNY, USA), Doyel Pal (LaGuardia Community College, CUNY, USA), Praveen Khethavath (LaGuardia Community College, USA) .....	2054

## ICACCI-32: Artificial Intelligence and Machine Learning/Distributed Systems/Applied Informatics/Industry Track/AIN'18 (Short Papers)

*Dynamic Load Balancing Strategy based on Resource Classification Technique in IaaS Cloud*

Souvik Paul (Meghnad Saha Institute of Technology, India), Mainak Adhikari (IIT(ISM), Dhanbad, India) .....	2059
<i>Optimal Placement of Wi-Fi Access Points for Indoor Regions to provide 2.4 GHz and 60 GHz spectrum using Dual Band Architecture</i>	
Shashi Kiran M R (PES Institute of Technology, India), Spoorthi Yadav M (PES Institute of Technology & Visvesvaraya Technological University, India), R V Hemanth Kumar (P E S Institute Of Technology, India), Madhusudan Thyagarajan (PES Institute of Technology, India) .....	2066
<i>Machine Learning Approaches for Resource Allocation in the Cloud: Critical Reflections</i>	
Akarsh Murali (NITK, India), Nibir Nirjas Das (NITK, India), Shiv Sukumaran (NITK, India), Chandra Sekaran K (National Institute of Technology Karnataka, India), Christina Joseph (National Institute of Technology, Karnataka, India), John Martin (National Institute of Technology, Karnataka, India) .....	2073
<i>Building a Dataset for Personalized Learning Recommendation System</i>	
Thoufeeq Syed (Middle East College & Coventry University, Oman), Vasile Palade (University of Coventry, United Kingdom (Great Britain)), Rahat Iqbal (Coventry University, United Kingdom (Great Britain)), Smitha Nair (Coventry University, Oman) .....	2080
<i>Forecasting of annual crime rate in India</i>	
Manish Kumar (IIITM-K, India), Athulya S (IIITM-K, India), Mary Minu MB (IIITM-K, India), Vidya Vinodini M D (IIITM-K, India), Aiswaria Lakshmi K G (IIITM-K, India), Anjana S (IIITM-K, India), Manojkumar TK (IIITM-K, India) .....	2087
<i>A Novel Approach for Biometric Based Remote User Authentication Scheme using Smart Card</i>	
Nishant Doshi (PDP, India), Chintan Patel (PDP, India) .....	2093
<i>An Approach Towards Building an IoT Based Smart Classroom</i>	
Ani R (Amrita Vishwa Vidyapeetham Amrita University Amritapuri, India), Krishna S (Amrita Vishwa Vidyapeetham Amrita University Amritapuri, India), Akhil H (Amrita Vishwa Vidyapeetham Amritapuri, India), Arun U (Amrita Vishwa Vidyapeetham Amritapuri, India) .....	2098

<i>Torque Analysis of Male-Female Gait and Identification using Machine Learning</i> Chaitanya Nutakki (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, Amrita University, India), Hasna Edakkepravan (Amrita Vishwa Vidyapeetham, India), Sowmya Gunasekaran (Amrita Vishwa Vidyapeetham, India), Lakshmi Ramachandran (Amrita Vishwa Vidyapeetham, India), Vandhana Sasi (Amrita Vishwa Vidyapeetham, India), Bipin Nair (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, Amrita University, India), Shyam Diwakar (Amrita Vishwa Vidyapeetham, India) .....	2103
<i>False Data Injection Prevention in Wireless Sensor Networks using Node-level Trust Value Computation</i> Sreevidya B (Amrita School of Engineering, Amrita Vishwa Vidyapeetham Bengaluru, India), Rajesh M (Amrita School of Engineering & Amrita Vishwa Vidyapeetham Bengaluru Campus, India) .....	2107
<i>Survey on Extractive Text Summarization Methods with Multi-Document Datasets</i> Jaqadish S Kallimani (M S Ramaiah Institute of Technology & Bangalore, India), Varalakshmi K (M S Ramaiah Institute of Technology, India) .....	2113

## ICACCI-34: Poster Session - I

<i>Automated Segmentation and Detection of Brain Tumor from MRI</i> Sanjay Shelke (Sant Gadge Baba Amravati University Amravati, India), Sharad W. Mohod (SGB Amravati University Amravati, India) .....	2120
<i>Development of an interactive gaming solution using MYO sensor for rehabilitation</i> Arnab Bhattacharyya (Vellore Institute Of Technology, Chennai, India), Oishee Mazumder (Tata Consultancy Services, India), Kingshuk Chakravarty (Tata Consultancy Services Limited, India), Debatri Chatterjee (TCS Innovation Lab, India), Aniruddha Sinha (Tata Consultancy Services, India), Rahul Gavas (Tata Consultancy Services, India) .....	2127
<i>Study on LBIST and Comparisons with ATPG</i> Adithya Kashyap R (2119 9th main 6th cross 3rd stage Srirampura Mysuru & Intel, India), Gayathri S (SJCE, Mysore, India) .....	2131
<i>Survey of Rank Attack Detection Algorithms in Internet of Things</i> S Kalyani (Research Scholar, VIT Chennai, India, India), Vydeki Dharmar (VIT University Chennai Campus, India) .....	2136
<i>Genre Classification using Word Embeddings and Deep Learning</i> Akshi Kumar (Delhi Technological University, India), Arjun Rajpal (Delhi Technological University, India), Dushyant Rathore (Delhi Technological University, India) .....	2142
<i>Relationship between the Cosine Integer Transform and the Mapped Real Transform</i> Rajesh C Roy (Adi Shankara Institute of Engineering and Technology, India) .....	2147
<i>Synthetic Generation of Traffic Data for Urban Mobility</i> Varun Sapre (PES University, India), Subramaniam Kalambur (PES University, India), Dinkar Sitaram (PES University, India), Rohit Bastian (Bristlecone, India) .....	2151
<i>Scheduling Applications of DAGs</i> Bhadrachalam Chitturi (Amrita Vishwa Vidyapeetham, Amritapuri, India., USA), Priyanshu Das (Amrita University & Directi, India) .....	2158
<i>Epidemic model based visibility estimation in Online Social Networks</i> Nemi Chandra Rathore (Indian Institute of Technology Patna & Central University of South Bihar Gaya, India), Somanath Tripathy (IIT Patna, India) .....	2161
<i>Semantically Enriched Line Search in a Humanities Digital Library</i> Debarshi Kumar Sanyal (IIT Kharagpur, India) .....	2169
<i>Web APIs for Internet of Things</i> Nikhil Sahni (Samsung R&D Institute India - Bangalore, India), Joy Bose (Samsung R&D Institute India, Bangalore, India), Kaushik Das (Samsung R & D Institute Bangalore, India) .....	2175
<i>Antenna array for a unified radio frequency identification system</i> Khiem Nquyen Khac (Vietnam Maritime University, Vietnam), Nikolay Knyazev (Ural Federal University, Russia), Tan Pham Huu (Vietnam Maritime University, Vietnam), Hung Luu Quang (Vietnam Maritime University & Ural Federal University, Russia) .....	2182
<i>Microstrip antenna with an air gap for use in RFID and tracking of cargo containers</i> Nho Luong Cong (Vietnam Maritime University, Vietnam), Sergei T. Knyazev (Ural Federal University, Russia), Viet Tran Xuan (Vietnam Maritime University, Vietnam), Hung Luu Quang (Vietnam Maritime University & Ural Federal University, Russia) .....	2186
<i>Microstrip dipole antenna with reduced dimensions with cutouts</i> Hung Luu Quang (Vietnam Maritime University & Ural Federal University, Russia), Lam Nquyen Phuonq (Vietnam Maritime University, Vietnam), Ruc Vu Van (Vietnam Maritime University, Vietnam), Thach Nguyen Dinh (Vietnam Maritime University, Vietnam) .....	2190
<i>Intelligent Chatbot for Easy Web-Analytics Insights</i> Ramya Ravi (Tata Consultancy Services, India) .....	2193
<i>Impact of CSR Activities on Shareholders' Wealth in Indian Companies</i> Rajiv Prasad (Amrita Vishwa Vidyapeetham University & Amrita School of Business, India), Yokeshwar Iyanar (Amrita Vishwa Vidyapeetham, India) .....	2196
<i>Artificial Neural Network Conventional Fusion Forecasting Model for Natural Gas Consumption</i> Prabodh Pradhan (Regional College of Management, India), Sunil Dhal (Sri Sri University, Cuttack, India), Nilayam Kumar Kamila (Capital One, USA) .....	2200
<i>Histogram of Oriented Gradients Based Reduced Feature for Traffic Sign Recognition</i> Deepika Kamboj (The NorthCap University, India), Sumeet Saurav (CSIR-CEERI, India) .....	2206
<i>Empirical Evidences to Validate the Performance of Self-Switching Base Vector Based Mutation of Differential Evolution Algorithm</i> Gurusamy Jeyakumar (Amrita School of Engineering, India), K Gokul (Amrita School of Engineering, Coimbatore, India), R Pooja (Amrita School of Engineering, Coimbatore, India) .....	2213

<i>A Novel Design of a Multi-DOF Mobile Robotic Helping Hand for Paralyzed Patients</i>	
Nixon Dutta (North South University, Bangladesh), Joyeta Saha (North South University, Bangladesh), Faysal Sarker (North South University, Bangladesh), Hasan U. Zaman (North South University, Dhaka, Bangladesh, Bangladesh)	2219
<i>Mitigating Mirai Malware Spreading in IoT Environment</i>	
Sai Gopal Tatikayala (Centre for Development of Advanced Computing(C-DAC), India), Mallesh Meerolla (Centre for Development of Advanced Computing(C-DAC), India), Grandhi Jyostna (Centre for Development of Advanced Computing (C-DAC), India), Ponnapu Lakshmi Eswari (Centre for Development of Advanced Computing, India), E. Mageesh (Centre for Development of Advanced Computing (C-DAC), India)	2226
<i>IoT Based Road Travel Time Detection</i>	
Roopa Ravish (PES University, India), Prajwal Nadaqouda (PES University, India), Kiran Hombal (PES University, India), Lavanya Ramkumar (PES University, India), Priya Nayak (PES University, India), Preet Shah (PES University, India), Rakshith Jayakumar (PES University, India), Pragnya Suresh (PES University, India), Shanta Rangaswamy (RVCE, India)	2231

## ICACCI-35: Poster Session II

<i>Pulse Oximetry and IOT based Cardiac monitoring integrated Alert system</i>	
Dhanurdhar Murali (P. E. S. Institute of Technology, India), Swathi R Rao (P. E. S. Institute of Technology, India), Deepthi R Rao (P. E. S. Institute of Technology, India), Ananda M (P. E. S. Institute of Technology, India)	2237
<i>Analysis of vulnerabilities in MQTT security using Shodan API and implementation of its countermeasures via authentication and ACLs</i>	
Harsha M S (PES Institute Of Technology Bangalore South Campus, India), Bhavani B M (PES Institute of Technology- Bangalore South Campus, India), Rajamani Kundhavai (PESIT, India)	2244
<i>Self Parking car prototype</i>	
Anukriti Singh (Banasthali University, India), Aditi Chandra (Banasthali University, India), Divya Priyadarshni (Banasthali University, India), Nisheeth Joshi (Banasthali University, India)	2251
<i>Design of Slotted Waveguide Antenna Using Particle Swarm Optimization</i>	
Bishwaranjan Tiwari (Amrita Vishwa Vidyapeetham, India), Raksanta S (Amrita University, India), Leshmi AG (Amrita University, India), Mekala Devi. V (Amrita University, India), Aswath KR (Amrita Vishwa Vidyapeetham, India)	2255
<i>Reducing DNSSEC Packet Size using Memorization in SDN environment</i>	
Vishal Gupta (BITS Pilani, India), Shivam Gupta (BITS Pilani, India)	2259
<i>Detection in Sporadic Multiuser Systems over 3GPP LTE Networks</i>	
Anjali V s (Amrita Vishwa Vidyapeetham, India), Ramanathan R (Amrita Vishwa Vidyapeetham, India)	2264
<i>SDN Based Secure Virtual Machine Migration In Cloud Environment</i>	
Anitha H m (VTU & BMSCE, India), Jayarekha P (VTU, BMSCE, India)	2270
<i>Favour prediction of Taxi services using real-time visualization</i>	
Sonali Agrawal (Indian Institute of Information Technology, Allahabad, India), Sanjay Kumar Sonbhadra (Indian Institute of Information Technology, Allahabad, India), Sonali Agarwal (Indian Institute of Information Technology, Allahabad, India)	2276
<i>Design and Implementation of the Prevention and Analysis of the Accident for Automobiles</i>	
Priya B K (Amrita School of Engineering & Amrita Vishwa Vidyapeetham, India), Vidya Pagadala (Amrita School of Engineering, India), Sheetal Rani (Amrita School of Engineering, India)	2283
<i>Performance of Dual mode OFDM-IM using Reduced Complexity Receiving Technique</i>	
Hari S r (Amrita Vishwa Vidyapeetham, India), Kannan K r (Amrita Vishwa Vidyapeetham, India), N Visaqan (Amrita Vishwa Vidyapeetham, India), Latha Latha (Amrita Vishwa Vidyapeetham & NA, India), Arpita Thakre (Amrita Vishwa Vidyapeetham, Bangalore, India)	2290
<i>Performance Evaluation of Secured Wiretap Channel with Multi-Antenna Technologies</i>	
Minnam Gowtham Reddy (Amrita Vishwa Vidyapeetham, India), Neeta Mishra (Amrita Vishwa Vidyapeetham, India)	2295
<i>Cooperative Spectrum Prescience for Advanced Performance of Cognitive Radio Networks (CRNs)</i>	
Chowdhury Sajadul Islam (Uttara University, Bangladesh), Md. Sarwar Hossain Mollah (Daffodil International University (DIU), Bangladesh)	2301
<i>Intelligent Daily Scheduler</i>	
Jai Geetha (VTU, India), Akanksh B s (Ramaiah Institute of Technology, India), Koushik A s (Ramaiah Institute of Technology, India)	2308
<i>Design and Implementation of an Open-Source Browser-based Laboratory Platform for EEG Data Analysis</i>	
Neenu Ramachandran (Amrita Vishwa Vidyapeetham, India), Rajasree Ramachandra Kurup (Amrita Vishwa Vidyapeetham, India), Joshy Alphonse (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, Amrita University, India), Priya Chellaiah (Amrita University, India), Manjusha Nair (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham & Amrita School of Engineering, Amritapuri, Amrita University, India), Bipin Nair (Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, Amrita University, India), Shyam Diwakar (Amrita Vishwa Vidyapeetham, India)	2313
<i>Multi-Level Analysis of Bit-Plane Based GLAC Feature and other Existing Texture Features for a Robust Hand Detection System</i>	
Songhita Misra (NIT SILCHAR, India), Rabul Laskar (Assistant Professor, India)	2318
<i>On Evaluation of Entity Matching Techniques for Bibliographic Database</i>	
Sumit Mishra (Indian Institute of Information Technology Guwahati, India), Sriparna Saha (IIT Patna & Department of CSE, India), Samrat Mondal (IIT Patna, India)	2325
<i>Autonomous Seed Sowing Agricultural Robot</i>	
Ponnuru Jayakrishna (Amrita School of Engineering, India), Machireddy Suryavamsi Reddy (Amrita School of Engineering, India), Nathani Jaswanth Sai (Amrita School Of Engineering, India), Naladi Susheel (Amrita School Of Engineering, India), Peeyush K P (Amrita Vishwa Vidyapeetham, India)	2332

<i>B2VDM: Blockchain Based Vehicular Data Management</i>	
Rohit Sharma (Tejas Networks Ltd., India), Suchetana Chakraborty (Indian Institute of Information Technology Guwahati, India)	2337
<i>Simulation and Deep CNN based architecture for validation of Intelligent automotive functions</i>	
Parampreet Kaur (Lovely Professional University, India), Rajeev Sobti (Lovely Professional University, India), Aditya Khamparia (Lovely Professional University & LPU, India)	2344
<i>A LSTM based Tool for Consumer Complaint Classification</i>	
Thomas N T (Amrita University & Amrita Vishwa Vidyapeetham, India)	2349
<i>Energy Efficient And Reliable Communication in IEEE 802.15.6 IR-UWB WBAN</i>	
Aravind M t (NIT CALICUT, India), Lillykutty Jacob (National Institute of Technology Calicut, India)	2352
<i>Identification of Acute Lymphoblastic Leukemia in Microscopic Blood Image Using Image Processing and Machine Learning Algorithms</i>	
Subhash Rajpurohit (MIT Pune, India), Sanket Patil (MIT Pune, India), Nitu Choudhary (MIT Pune, India), Shreya Gavasane (MIT Pune, India), Pranali Kosamkar (MIT, Pune, Pune University, India)	2359
<i>Machine Type Comparative of Leading Cloud Players based on Performance &amp; Pricing</i>	
Abdul Wahid (University of Kashmir, India), M. Tariq Banday (University of Kashmir, India)	2364
<i>Exploring the Relationship between Socio-inspired CALM and Network Capacity through Regression Analysis</i>	
Srikant Manas Kala (IIT HYDERABAD, India), Vanlin Sathya (University of Chicago, USA), Bheemarjuna Reddy Tamma (IIT Hyderabad, India)	2369
<i>A comparison study of Word Embedding for Detecting Named Entities of Code-Mixed Data in Indian Language</i>	
Lolla Sravani (Amrita Vishwa Vidyapeetham, India), Atla Reddy (Amrita Vishwa Vidyapeetham, India), Thara S (Amrita Vishwa Vidyapeetham, India)	2375
<i>Code-Mixing: A Brief Survey</i>	
Thara S (Amrita Vishwa Vidyapeetham, India), Prabakaran Poornachandran (Amrita Vishwa Vidyapeetham, Amrita University, India)	2382

## ICACCI-36: Poster Session III

<i>A Review on Machine Learning Trends, Application and Challenges in Internet of Things</i>	
Ramasani Ravinder Reddy (Osmania University, India), Mamatha Chintha Reddy (JNTUH, India), Govardhan Reddy R (Osmania University, India)	2389
<i>Ensemble Similarity based Collaborative Filtering Feedback: A Recommender System Scenario</i>	
Rishabh Thukral (Indian Institute of Technology( ISM), Dhanbad, India), Dharavath Ramesh (Indian Institute of Technology( ISM), Dhanbad, India)	2398
<i>Identification of Illegal Garbage Dumping with Video Analytics</i>	
Sriya Mahankali (Pes University, India), Supreeth V Kabbini (Pes University, India), Spoorti Nidagundi (Pes University, India), Ramamoorthy Srinath (PES University, India)	2403
<i>Sentiment Analysis of Product Reviews using Deep Learning</i>	
Jaqadeesh Panthathi (Amrita School of Engineering & Amrita Vishwa Vidyapeetham, India), Jasmine Bhaskar (Amrita University, India), Manish Challa (Amrita University, India), Tarun Kumar Ranga (Amrita University, India)	2408
<i>Comparison of different Acoustic Models for Kannada language using Kaldi Toolkit</i>	
Jeeva Priya K (Amrita School of Engineering & Amrita Vishwa Vidyapeetham, India), Sahana T (Amrita School of Engineering, India), Naqa Srilasya (Amrita School of Engineering, India), Vinay S (Amrita School of Engineering, India), Deepa Gupta (Amrita Vishwa Vidyapeetham, India)	2415
<i>Multilevel Authentication using QR code based watermarking with mobile OTP and Hadamard transformation</i>	
Jisha Thomas (Visvesvaraya Technological University, Belagavi, India), R H Goudar (Visvesvaraya Technological University, Belagavi, India)	2421
<i>Performance Evaluation of Augmented Reality based 3D Modelling Furniture Application</i>	
Tahir Ahmed T (NMIT, India, India), Vijaya Shetty S (NMIT, India), Samirasimha R (NMIT, India, India), Sushmitha Bedere (NMIT, India)	2426
<i>Predictive analysis of drug reviews using Gibbs sampling topic modeling</i>	
V Kakulapati (Sreenidhi Institute of Science and Technology, India), Sunil Bhutada (Sreenidhi Institute of Science and Technology, India), Mahender Reddy S (SNIST, India)	2432
<i>A Data Mining Model To Predict Breast Cancer Using Improved Feature Selection Method On Real Time Data</i>	
Amrita Sanjay (Amrita Vishwa Vidyapeetham, India), H Nair (Amrita Vishwa Vidyapeetham, India), Sruthy Murali (Amrita Vishwa Vidyapeetham, India), Krishnaveni K S (Amrita Vishwa Vidyapeetham, India)	2437
<i>Network Intrusion Detection using Improved Genetic K-means Algorithm</i>	
Anand Sukumar J V (Final year B. Tech student(CSE), India), Pranav I (Final year B. Tech student(CSE), India), Neetish MM (Final year B. Tech student(CSE), India), Jayasree Narayanan (Amrita Vishwa Vidyapeetham, Amritapuri, India)	2441
<i>Defending against packet dropping attacks in Wireless Adhoc Networks using Cluster based Trust Entropy</i>	
Kanthimathi S (Pes School of Engineering, India), Jhansi P (CMR Institute of Technology, India)	2447
<i>Multimodal Medical Image fusion using Curvelet Algorithm</i>	
Mathiyalagan P (Sri Ramakrishna Engineering College, India)	2453
<i>Automatic Image Registration for Oceansat-2 OCM Products</i>	
Suresh Kumar M (NATIONAL REMOTE SENSING CENTRE & ISRO, India), RN Anjani (NATIONAL REMOTE SENSING CENTRE, India), Ch Venkateswara Rao (NRSC, India), Barla Gopala Krishna (NATIONAL REMOTE SENSING CENTRE, India)	2459



<i>Drift fault accommodation system of a transport aircraft using Neural network models</i>	
Seema Singh (BMS Institute of Technology, India), Shashank S (BMS Institute of Technology and Management, India), Shrisha Heqde (BMS Institute of Technology and Management, India), Tapas Paul (BMS Institute of Technology and Management, India), Rani Reddy (BMS Institute of Technology and Management, India) .....	2464
<i>A Hopfield Neural Network Approach for Authentication of Password Based on Fuzzy Logic</i>	
Lekshmi K (Amrita School of Engineering, India), Krishnaveni K S (Amrita Vishwa Vidyapeetham, India), Aparna VK (Amrita Vishwa Vidyapeetham, India) .....	2471
<i>A k-clique based clustering protocol for resource discovery in P2P network</i>	
Krishna Prasad (Amrita Vishwavidyapeetham University, India), Jayakumar P (Amrita School of Engineering, Amritapuri Campus, India), G. p. Sajeev (Amrita Vishwa Vidyapeetham & Govt Engineering College, India) .....	2475
<i>Effect of Feature Reduction using Bigram Technique for detection of Forged Reviews</i>	
Nandakishor Prabhu R (Amrita Vishwa Vidyapeetham, Amrita University, India), Asha Ashok (Amrita Vishwa Vidyapeetham, India) .....	2481
<i>A Survey of Low-cost Lock-in Amplifiers for Sensor Application</i>	
Akshaya S (Amrita Center for Wireless Networks and Applications, Amrita School of Engineering, India), Sethuraman N Rao (Amrita Vishwa Vidyapeetham, India), Keyan Bennaceur (Amrita Vishwa Vidyapeetham, India) .....	2486
<i>CMOS-Memristive Self-Cascode Current Mirror</i>	
Yerzhan Orazayev (Nazarbayev University, Kazakhstan), Olga Krestinskaya (Nazarbayev University, Kazakhstan), Alex Pappachen James (Nazarbayev University, Kazakhstan) .....	2491
<i>Implementation of FIR Filter &amp; MAC Unit by using Neural Networks in FPGA</i>	
P Sathish Kumar (Amrita Vishwa Vidyapeetham, India), Aditya Chauhan (Amrita Vishwa Vidyapeetham, India) .....	2496
<i>Efficient Dynamic Virtual Channel Architecture for NoC Systems</i>	
Avani P (Amrita School of Engineering, Bengaluru, Amrita Vishwa Vidyapeetham, India), Sonali Agrawal (Amrita School of Engineering, Bengaluru, Amrita Vishwa Vidyapeetham, India) .....	2502