

TECHNICAL PROGRAM SCHEDULE ICAECC-2018

FRIDAY, 9-FEB-2018		
COMMUNICATION SYSTEMS		
Session Chairs	Dr. Jaume Anguera , Founding Partner and Chief Scientist, Fractus Antenna and Associate Professor Universitat Ramon Llull, Barcelona Spain Dr. Vinod Agrawal , Ex. Outstanding Scientist, ISRO and Director crucible Research and Innovation (CORI), PES University, Bangalore, India	
Session 1: Track 1 1.30 pm -3.00 pm Aryabatta Seminar Hall (First Floor)	Paper ID	Title of the Paper
	26	Energy Efficient Dynamic Navigation System
	48	Design and Performance Analysis Of Integrated Antenna With LNA For Air Bound Tracking
	80	A Novel LCP Substrate Dual Band Antenna Loaded With T-Shaped Resonator and Circular Slot
	125	A Compact Planar Metamaterial Inspired Antenna for Satellite Applications
	171	Artificial Anisotropic Material for Gain Enhancement of Vivaldi Antenna
	284	A Metamaterial based Multiband Frequency Reconfigurable Antenna for Wireless Applications
SIGNAL/IMAGE PROCESSING AND ANN		
Session Chairs	Dr. Ashok S. , BEC Bagalkot, Bangalore Dr. Bharathi S. H. , REVA University, Bangalore	
Session 1: Track 2 1.30 pm -3.00 pm CNR Rao Seminar Hall (Basement)	Paper ID	Title of the Paper
	170	Joint Polarimetric-Three Dimensional Imaging Using Spiral Phase Mask and Microgrid Polarimeter
	23	Design and Implementation of 16 Tap FIR Filter for DSP Applications
	44	Classification of Healthy and Pathological Voices Using MFCC and ANN
	45	Analysis of Visualization Techniques in Diffusion Tensor Imaging (DTI)
	64	An Intelligent Computing Waste Approach for Parkinson Disease Detection
	75	Image Water Marking Using DCT
	76	A Survey on Video Summarization Techniques
COMPUTER NETWORK, IOT AND SECURITY		
Session Chairs	Dr. Anandi , Indian Institute of Science, Bangalore Dr. Sunil Kumar Manvi , REVA University, Bangalore	
Session 1: Track 3 1.30 pm -3.00 pm Kalpana Chawla Seminar Hall (Basement)	Paper ID	Title of the Paper
	186	Intrusion Detection Using NB Hoeffding Rule Based Decision Tree Paradigm for Wireless Sensor Networks
	25	Transcoding of Next Generation Distributed Video Codec for mobile Video
	51	Linearity Enhancement Using Bulk-Degeneration for Source Degenerated OTAs
	63	Design and Development of a Level Sensor

	66	Understanding Micro aggregation - A Technique of Statistical Disclosure Control for Privacy Preserving and Data Publishing in Cloud
	79	In-Network Data Compression in Wireless Sensor Networks Using Distributed Block Truncation Coding
COMPUTATIONAL INTELLIGENCE AND VLSI		
Session Chairs	Dr. Rajath Vasudeva Murthy , Amrita University, Bangalore Dr. Venkata Siva Reddy , REVA University, Bangalore	
Session 1: Track 4 1.30 pm -3.00 pm QEEE Seminar Hall (Ground Floor)	Paper ID	Title of the Paper
	4	Code Obfuscating a Kotlin-Base App With Proguard
	28	Performance of GitHub Open-Source Software Project:An Empirical Analysis
	35	Data Rate Based Performance Characterization of USB 3.0 Super Speed Bulk in Transaction
	50	Context Aware Information Classification in Fog computing
	93	Electrochemically Grown Potassium Ferrocyanide Doped Conducting Polymeric Rhodamine b Nanodots Modified Graphite Based Fluorescence Supercapacitors
MISCELLANEOUS		
Session Chairs	Dr. Rajashekhar P. Mandi , REVA University, Bangalore Dr. P. I. Basorkod , REVA University, Bangalore	
Session 1: Track 5 1.30 pm -3.00 pm UIIC-1 Seminar Hall (Ground Floor)	Paper ID	Title of the Paper
	34	MOEMS Based Sensor for Tire Carcass Deflection Monitoring in Automobile Using Photonic Crystal
	61	Impact of CSR Disclosure and Environmental Measures on Stock Price: A Study Based on Business Responsibility Report of Indian Companies
	120	An Innovative Approach of Classroom Scheduling: Smart Class: A Review
	141	Source Localization Using Over –Complete Dictionary
	211	Education Through Technical Games
	238	Critical Review of Control Strategies for Switched Reluctance Motor Employed in Electric Vehicle
305	A Novel ATM Security System Using a User Defined Personal Identification Number With the Aid of GSM Technology	
	308	Nepal Stock Exchange Prediction Using Support Vector Regression and Neural Network
COMMUNICATION SYSTEMS		
Session Chairs	Dr. Kishore , UTL Technologies, Bangalore Prof. Tanweer , REVA University Bangalore	
Session 2: Track 1 3.00 pm - 4.30 pm	Paper ID	Title of the Paper
	145	Impairment Impact on the Wireless Communication System
	261	Equivalent Circuit and Validation of a Direct Coupled Hexagonal Split Ring Resonator
	150	Compact CPW Fed Dual Band Omnidirectional Antenna with Modified Signal Strip
	69	Cellular Automata Based Optimal Illumination in LED Based Lighting Systems

Aryabatta Seminar Hall (First Floor)	267	A Survey on Channel Parameters and Signal Processing Methods at mm-wave for 5G Networks
	236	A Comparative Study on the Performance of Circular Patch Antenna Using Low Cost Substrate for S-Band Applications
	95	Detection and classification of traffic sign in real time for driver assistance system.
SIGNAL/IMAGE PROCESSING AND ANN		
Session Chairs	Dr. Javed, Sr. MTS - Custom Design, Terminus Circuits Pvt Ltd, Bangalore Dr. Mallikarjun M. Kodabagi, REVA University, Bangalore	
Session 2: Track 2 3.00 pm - 4.30 pm CNR Rao Seminar Hall (Basement)	Paper ID	Title of the Paper
	84	A Survey on Implicit Aspect Based Sentiment Analysis
	87	A Review on the Application of Human Visual System Algorithm for the Image Enhancement
	92	Aspect Level Sentiment Analysis: Survey, Challenges and Future Directions
	97	On Sparse Audio Data Watermarking by Exploiting Haar Transform Structure
	167	Designing of Sensing Matrix for Compressive Sensing and Reconstruction
	180	Texture Analysis of Brain MR Images
COMPUTER NETWORK, IOT AND SECURITY		
Session Chairs	Dr. Preeta Sharan, Oxford college of engineering, Bangalore Dr. Gyanappa Wallikar, Sanjay Ghodawat Institute of Technology, Management and Research, ATIGRE, Kolhapur	
Session 2: Track 3 3.00 pm - 4.30 pm Kalpana Chawla Seminar Hall (Basement)	Paper ID	Title of the Paper
	85	Privacy in Pervasive Computing Environment: A Survey
	89	Smartbin-Automatic Waste Segregation and Collection
	94	Performance Valuation of Pan Sharpening Approaches in an Urban Environment
	96	Chessboard Crypt-Algorithm
	98	Dynamic Key Dependent S-Box for Symmetric Encryption for IOT Devices
COMPUTATIONAL INTELLIGENCE AND VLSI		
Session Chairs	Dr. Rajath Vasudeva Murthy, Amrita University, Bangalore Dr. Riyaz Ahmad, REVA University, Bangalore	
Session 2: Track 4 3.00 pm - 4.30 pm QEEE Seminar Hall (Ground Floor)	Paper ID	Title of the Paper
	99	Analysis, Design and Simulation of Multi Output Forward-Flyback Converter
	116	Distributed Component-based Crawler for AJAX Applications
	136	Memristor-based Neuromorphic Hybrid CMOS Sub-Block Architecture for a High-Speed Arithmetic and Logic Unit
	152	14-bit Low Power Successive Approximation ADC using Two Step Split Capacitive Array DAC With Multiplexer Switching
	271	Inertial Response Support in LFC by Linearized Delta Torque Model Based DFIG
153	Optimizing Wind Turbine-Generator Design Using Genetic Algorithm	

MISCELLANEOUS		
Session Chairs	Dr. Uma N. Dulhare , Muffakham Jah College of Engineering and Technology, Hyderabad Dr. B. P. Divakar , REVA University, Bangalore	
Session 2: Track 5 3.00 pm - 4.30 pm UIC-1 Seminar Hall (Ground Floor)	Paper ID	Title of the Paper
	19	Structural Monitoring of Buildings Using Wireless DIY Kits and IOT Platform
	40	Design of Area Efficient High Speed Shift Register for Low Power Applications
	43	Delineated Analysis of Robotic Process Automation Tools
	65	Two Layer Cloud Security Set Architecture on Hypervisor
	77	Contextual Care Protocol Using Neural Networks and Decision Trees
	106	Reliable Multicast Clustering Approach Based on K-Means Method for Wireless Sensor Networks
110	IOT Enabled Comprehensive, Plug and Play Gateway Framework for Smart Health	
SATURDAY, 10-FEB-2018		
COMMUNICATION SYSTEMS		
Session Chairs	Dr. Kumar Swamy H. V. , RVCE, Bangalore Dr. Mrinal Sarvagya , REVA University, Bangalore	
	Paper ID	Title of the Paper
Session 3: Track 1 9.00 am-10.30 am Aryabatta Seminar Hall (First Floor)	205	Visible Light Communication and Radio Network for Vehicular Environment
	178	Cooperative Spectrum Sensing in Log-Normal Shadowing Environment with Erroneous Sensing and Reporting Channels
	146	Design and Analysis of Two Novel Metamaterial Unit Cells for Antenna Engineering
	278	Optimization of Unequally Spaced Linear Antenna Array by Employing PSO Technique
	285	A Compact Audi-Shaped Slotted Multiband Antenna for WiMAX/WLAN/X-band Applications
SIGNAL/IMAGE PROCESSING AND ANN		
Session Chairs	Dr. Anand M. , C-DoT, Bangalore Dr. G. Seshikala , REVA University, Bangalore	
	Paper ID	Title of the Paper
Session 3: Track 2 9.00 am-10.30 am CNR Rao Seminar Hall (Basement)	101	Low Power EMG Front-End for Face Paralysis
	108	Cartilage Segmentation of Knee Osteoarthritis from Magnetic Resonance Images (MRI)
	117	Enhanced Framework for Sentiment Analysis in Text Using Distance Based Classification Scheme
	118	Probabilistic Principal Component Analysis Based Dimensionality Reduction and Optimization for Arrhythmia Classification Using ECG Signals
	123	Medical Image Denoising Using Synergistic Fibroblast Optimization Based Weighted Median Filter

COMPUTER NETWORK, IOT AND SECURITY		
Session Chairs	Dr. Sathish Babu , RV College of Engineering, Bangalore Dr. Rajashekhar C. Biradar , REVA University, Bangalore	
Session 3: Track 3 9.00 am-10.30 am Kalpana Chawla Seminar Hall (Basement)	Paper ID	Title of the Paper
	111	An Unmanned Aerial Vehicle Navigation Techniques-A Survey
	114	A Heterogeneous Dynamic Scheduling Minimized Makespan for Energy and Performance Balancing
	126	Throughput Analysis of Cooperative Spectrum Sensing With Hard-Decision Fusion over Generalized Kappa-Mu Fading Channel
	128	ACO and CLD Techniques in MANNETs to Design Adaptable Protocols
	202	Performance Evaluation of TCP Using AQM Schemes for Congestion Control
COMPUTATIONAL INTELLIGENCE AND VLSI		
Session Chairs	Dr. Prashanth Joshi RU Dr. Parameshchhari B. D. , GSSSIETW, Mysuru	
Session 3: Track 4 9.00 am-10.30 am QEEE Seminar Hall (Ground Floor)	Paper ID	Title of the Paper
	177	Low Complexity Multi-Mode Transmultiplexer
	185	Performance of Power Convertors for Ultra Low Power Systems: A Review
	194	Detection of Malicious Circuit in Hardware using Compressive Sensing Algorithm
	212	Application of Work function Engineering in Lateral Power Devices
	228	Charge Plasma based VVD-SJ VDMOS Employing Reversed Doping Concentration
	237	Dual Material Gate –Gate Stack-Elliptical Gate All Around(DMG-GS-EG) MOSFET-A Novel Device Concept for Improved Performance
	250	Implementation of FPGA based Closed Loop V/f Speed Control of Induction Motor Employed for Industrial Applications
	293	High Speed Bootstrapping Generic Voltage Level Shifter
MISCELLANEOUS		
Session Chairs	Dr. Navin Kumar , Amrita University, Bangalore Dr. P. S. Venkatramu , REVA University, Bangalore	
Session 3: Track 5 9.00 am-10.30 am UIIC-1 Seminar Hall (Ground Floor)	Paper ID	Title of the Paper
	115	A Comparative Study of Supervised Learning Techniques for Human Activity Monitoring Using Smart Sensors
	168	Li-Fi Based Automatic Traffic Signal Control for Emergency Vehicles
	179	A Study on Automated Toll Collection System Using Radio Frequency Identification
	220	Multilevel Home Security System Using Arduino and GSM
	290	Analysis , Comparison and Simulation of Three Phase 9 Level Cascaded Multilevel Inverter With Advanced Modulation Control Techniques using Less Switches
	62	Typologies and Regulations for Shared Economies in India: A Review

SIGNAL/IMAGE PROCESSING AND ANN		
Session Chairs	Mr. Muneer Mohammad , Program specialist, Comsoc and ehealth at IEEE India Dr. Geetha , VIT, Chennai	
Session 4: Track 1 1.30 pm -3.00 pm Aryabatta Seminar Hall (First Floor)	Paper ID	Title of the Paper
	229	A Combined Approach Using Semantic Role Labeling and Word Sense Disambiguation for Question Generation and Answer Extraction
	244	Text Detection and Recognition from Scene Images Using MSER and CNN
	247	Predicting the Occurrence of Essential Hyper Tension Using Annual Health Records
	248	Corneal Endothelium Cell Segmentation and Count Using K-Means and Watershed Algorithms
	255	A Study of Optimum Sampling Pattern for Reconstruction of MR Images Using Compressive Sensing
	273	Bengali Handwriting Recognition and Conversion to Editable Text
SIGNAL/IMAGE PROCESSING AND ANN		
Session Chairs	Dr. Vijayashree Budyal , SVCE, Bangalore Dr. Manjunath R. Kounte , REVA University, Bangalore	
Session 4: Track 2 1.30 pm -3.00 pm CNR Rao Seminar Hall (Basement)	Paper ID	Title of the Paper
	100	Anomaly Detection in Surveillance Videos Using MD Approach
	139	Hyperspectral Image Content Identification Using Kernel Based Neural Network
	160	An Efficient CNN Architecture for Image Classification on FPGA Accelerator
	189	Cepstral Domain Approach to Enhance Noisy Speech and Increase Intelligibility for Mobile Communication
210	Safety and Security Issues in Natural Language Processing(NLP)- A Review	
COMPUTER NETWORK, IOT AND SECURITY		
Session Chairs	Dr. Navin Kumar , Amrita University, Bangalore Dr. Kiran Kumari Patil , REVA University, Bangalore	
Session 4: Track 3 1.30 pm -3.00 pm Kalpna Chawla Seminar Hall (Basement)	Paper ID	Title of the Paper
	132	Secure Localization for Underwater Wireless Sensor Networks Based on Probabilistic Approach
	144	Isolated Node Localization Probability in Wireless Ad-Hoc Networks
	173	Bezier Curve Based Multipath Routing in VANET
181	Smart-Cart for Smart-Cities	
COMPUTER NETWORK, IOT AND SECURITY		
Session Chairs	Dr. Shilpa Chowdhary , MSRIT, Bangalore Dr. Geeta D. , REVA University, Bangalore	
Session 4: Track 4 1.30 pm -3.00 pm QEEE Seminar Hall (Ground Floor)	Paper ID	Title of the Paper
	27	SPMS: A Scientific Decision Framework for Smartphone Manufacturer Selection Using Linguistic Preferences
	219	Agricultural Productivity Enhancement Systems and Life Stock Management Using Internet Of Things
222	CAN Controlled Complex Real-Time Stimulus for Verification and Validation of Powertrain Systems	

	246	An Integrated Model to Enhance Energy Efficiency in 5 th Generation for Internet Of Things
	257	A Survey on Localization Protocols in Wireless Sensor Networks
SIGNAL/IMAGE PROCESSING AND ANN		
Session Chairs	Dr. Cyril Prasanna , MSEC, Bangalore Dr. S N Prasad , REVA University, Bangalore	
Session 4: Track 5 1.30 pm -3.00 pm UIIC-1 Seminar Hall (Ground Floor)	Paper ID	Title of the Paper
	231	Morphological Approach for Retinal Microaneurysm Detection
	277	Survey on Different Multimodel Approaches for Automatic Image Description Generation
	282	Deep Convolution Network Based Prediction Model for Medical Diagnosis of Lung Cancer-A Deep Pharmacogenomic Approach
	297	Sparse Reconstruction of Hyper Spectral Image Using Bregman Iterations
	306	Determination of Absolute Heart Beat From Photoplethysmographic Signals in the Presence of Motion Artifacts
	326	Preprocessing and Binarization of Inscription Images Using Phase Based Features
COMPUTER NETWORK, IOT AND SECURITY		
Session Chairs	Dr.Kerur SDMCE , Dharwad Dr. Manjula R. Bharamagoudra , REVA University, Bangalore	
Session 4: Track 6 1.30 pm – 3.00 pm UIIC-2 Seminar Hall (Ground Floor)	Paper ID	Title of the Paper
	275	Detecting Ransomware Using GURLS
	289	Smart Street Lighting With Reduced Sensors For Sustainable and Efficient Smart Cities
	296	LQI-Key:Symmetric Key Generation Scheme for Internet Of Things(IOT)Devices Using Wireless Channel Link Quality
	307	Relay Assisted Cooperative Communication for Wireless Sensor Networks
329	A Comparative Study of WSN and IOT	