

2018 Conference on Information and Communication Technology (CICT'2018)

October 26-28, 2018 | PDPM IIITDM Jabalpur, India

Technical Program Schedule

Friday, 26 October 2018		
Tutorial #1 09:30-11:00 Title: Visualizing Feature Extraction and Classifier Design: An Application to Face Recognition Speaker: Prof. Jamuna Kanta Sing, Jadavpur University Kolkata, India		Tutorial #2 09:30-11:00 Title: Introduction and Applications of Deep Learning Speaker: Prof. Shekhar Verma, IIIT Allahabad, India
Tea Break 11:00-11:15		
Tutorial #1 & Tutorial #2 (Conti...) 11:15-12:30		
Lunch Break 12:30-14:00		
Inaugural Ceremony cum Keynote Session #1 14:00-15:00 Chief Guest and Keynote speaker: Dr. Sudhir Kumar Mishra, CEO & MD, BrahMos Aerospace, Distinguished Scientist and Director General (BrahMos), DRDO		
Keynote Session #2 15:00-16:00 Keynote speaker: Prof. Yasushi Yamaguchi, University of Tokyo, Japan Title: Geometric Modeling and Image Processing as Visual Informatics		
High Tea 16:00-16:30		
Friday, 26 October 2018 16:30-17:30 Session ID: S1-Image Processing		
Paper ID	Title	Presenter
9	Vaibhav Malviya and Rahul Kala, "Tracking Vehicle and Faces: Towards Socialistic Assessment of Human Behaviour"	Vaibhav Malviya
14	Lalit Jiwani, "Least Square Intra-Prediction Mode Prediction Based Video Compression"	Lalit Kumar Jiwani
18	Shrikant Mudnur, Satish Goyal, and Krupa Jariwala, "Extraction of Maximum Secret Information Hidden in Approximate Band of Haar Wavelet Transform of an Image"	Shrikant P Mudnur

19	Shrikant Mudnur, Satish Goyal, and Krupa Jariwala, "Hiding the Secret Image using Two Cover Images for Enhancing the Robustness of the Stego Image Using Haar DWT and LSB Techniques"	Shrikant P Mudnur
125	Amit Verma, Toshnall Meenpal, and Bibhudendra Acharya, "A Deep Convolutional Neural Network for Interrelationship Identification between Humans from Images"	Amit Verma
Friday, 26 October 2018 16:30-17:30		
Session ID: S2 (Communication Systems)		
Paper ID	Title	Presenter
39	Arun Pant, Lalit Kumar, and Manoj Singh Parihar, "Smart Antenna with Dynamic Radiation Pattern Capability for 4G Applications"	Lalit Kumar
62	Manish Varun Yadav, and Sudeep Baudha, "A Compact High Gain Partial Ground Plane Monopole Antenna For WLAN Application"	Sudeep Baudha
75	Divakar Kumar, Dablu Kumar, and Rakesh Ranjan, "Analysis of Coupling Effect in Coupled SOI Rib Waveguide for Different Polarization Mode"	Dablu Kumar
82	Pintu Kumar, D. K. Singh, and Rakesh Ranjan, "Mode Analysis of Hybrid Metal-Insulator-Metal Multilayer Plasmonic Waveguide"	Pintu Kumar
Keynote Session #3 09:15-10:15		
Speaker: Prof. Vinod Sharma, Deptt. Of ECE, IISc Bangalore, India		
Title: Modelling and analysis of communication systems with energy harvesting.		
Saturday, 27 October 2018 10:30-11:30		
Session ID: S3 (Machine Learning)		
Paper ID	Title	Presenter
25	Nitin Kumar Ganwgar, and Mahendra Pratap Singh, "User Profile Generation in Online Advertising Using Machine Learning"	Mahendra Pratap Singh

45	Shubham Kumar, and Krishan Kumar, “IRSC: Integrated automated Review mining System using virtual machines in Cloud environment”	Krishan Kumar
63	Shajulin Benedict, Deepak Giri, Nila Goutham, and Sreelakshmi N, “Real Time Water Quality Analysis Framework using Monitoring and Prediction Mechanisms”	Shajulin Benedict, Deepak Giri
104	Haroon Ansari, Aditya Vijayvergia, and Krishan Kumar, “DCR-HMM: Depression detection based on Content Rating using Hidden Markov Model”	Aditya Vijayvergia
Saturday, 27 October 2018 10:30-11:30		
Session ID: S4 (Image Processing)		
Paper ID	Title	Presenter
26	Pooja Panwar, Monika, Parveen Kumar, and Ambalika Sharma, “CHGR: Captcha generation using Hand Gesture Recognition”	Parveen Kumar
59	Rajib Ghosh, and Suraj Thakre, “A vehicle number plate recognition system using region-of-interest based filtering method”	Rajib Ghosh
72	Shashank Kotyan, Nishant Kumar, Pankaj Kumar Sahu, and Venkanna U., “Drishtikon: An advanced navigational aid system for visually impaired people”	Shashank Kotyan
Saturday, 27 October 2018 10:30-11:30		
Session ID: S5 (Communication Systems)		
Paper ID	Title	Presenter
36	Anshul Pandey, and Suneel Yadav, “Physical Layer Security for Cooperative Vehicular Amplify-and-Forward Relay Networks”	Anshul Pandey
68	Dablu Kumar, and Rakesh Ranjan, “Analysis of Crosstalk Performance and its Reduction Amount in Single-mode Homogeneous Trench-assisted Multicore Fiber”	Dablu Kumar
83	Praphul Samavedam M, Bindu Priya Kalathuru, and Sainath Bitragunta, “Energy Harvesting, Hybrid, Cooperative Wireless System Modeling and Outage Performance	Samavedam

	Analysis”	Manikhanta Praphul
86	Arun Pant, Lalit Kumar, and Manoj Singh Parihar, “A Frequency Reconfigurable Mobile Handset Antenna for 4G & Pre-5G Technology”	Lalit Kumar
Saturday, 27 October 2018 10:30-11:30		
Session ID: S6 (Machine Learning)		
Paper ID	Title	Presenter
105	Vijay Kumar Bohat, K V Arya, and Shyam Rajput, “Prey Phase based Grey Wolf Optimizer”	Vijay Kumar Bohat
115	Padmakar Pandey, Akash Chakroborty, and Gora Nandi, “Efficient Neural Network Based Principal Component Analysis Algorithm”	Padmakar Pandey
118	Maheep Singh*, Mahesh Govil, and Emmanuel Pilli, “SOD-CHIEF: Saliency Object Detection using Convex Hull with multi-scale Energy Functions”	Maheep Singh
139	Pandia Rajan Jeyaraj, Edward Rajan Samuel Nadar, and Panigrahi Bijaya Ketan*, “ResNet Convolution Neural Network Based Hyperspectral Imagery Classification for Accurate Cancerous Region Detection”	J.Pandia Rajan
Tea Break 11:30-11:45		
Saturday, 27 October 2018 11:45-12:45		
Session ID: S7 (Natural Language Text Processing)		
Paper ID	Title	Presenter
67	Krishna Siva Prasad Mudigonda, and Poonam Sharma, “Modified Path Measure to Assess Sentence Similarity”	M. Krishna Siva Prasad
79	Hrithik Katiyar, Monika, Parveen Kumar, and Ambalika Sharma, “Twitter Sentiment Analysis using Dynamic Vocabulary”	Parveen Kumar
101	Vishnu Sai Desai, and Ramakanta Mohanty, “ANN-Cuckoo Optimization Technique to	Vishnu Sai Desai

	Predict Software Cost Estimation”	
119	Aditya Vijayvergia, and Krishan Kumar, “STAR: rating of review by exploiting variation in emotions using transfer learning framework”	Aditya Vijayvergia
Saturday, 27 October 2018 11:45-12:45		
Session ID: S8 (Image Processing)		
Paper ID	Title	Presenter
73	Shashank Kotyan, Nishant Kumar, Pankaj Kumar Sahu, and Venkanna U., “HAUAR: Home Automation Using Action Recognition”	Shashank Kotyan
78	Manish Bhatt, Monika, Parveen Kumar, and Ambalika Sharma*, “Facial Expression Detection and Recognition using Geometry Maps”	Parveen Kumar
80	Rajib Ghosh, and Chinmaya Panda, “Handwritten Text Recognition in Bank Cheques”	Rajib Ghosh
84	Kapil Mishra, Satish Singh, and Panduranga Nagabhushan, “An Improved SVD based Image Compression”	Kapil Mishra
Saturday, 27 October 2018 11:45-12:45		
Session ID: S9 (Communication Systems)		
Paper ID	Title	Presenter
37	Anshul Pandey, and Suneel Yadav, “Secrecy Performance of Cellular Multiuser Two-Way Decode-and-Forward Relay Networks”	Anshul Pandey
69	Rakesh Ranjan, and Dablu Kumar, “Design strategies for two-core uncoupled multicore fiber for crosstalk analysis”	Dablu Kumar
98	Subodh Tripathi, Aditya Trivedi, and Shweta Rajoria, “Power Optimization of Cell Free massive MIMO with Zero-forcing Beam Forming Technique”	Subodh Chand Tripathi
109	Shreya Gupta, Aditya Trivedi, and Praveen Pawar, “An Approach for Improving	Praveen Pawar

	Performance of Underlay D2D Communication”	
Saturday, 27 October 2018 11:45-12:45		
Session ID: S10 (Networks & Security)		
Paper ID	Title	Presenter
17	Jincy Johny, and Mahendra Pratap Singh, “Network Dominating Attack Detection and Recovery”	Mahendra Pratap Singh
24	Vikrant Kumar, Monika, Parveen Kumar, and Ambalika Sharma*, “Spam Email Detection using ID3 Algorithm and Hidden Markov Model”	Parveen Kumar
127	Rahul Deo Verma, and Shefalika Ghosh Samaddar, “Analysis of Border Gateway Protocol (BGP) with improvement in Byzantine Robustness”	Rahul Deo Verma
136	Soham Deshmukh, and Rahul Rade, “Tackling Toxic Online Communication with Recurrent Capsule Networks”	Soham Deshmukh
Lunch Break 12:45-14:00		
WiE Mini Conference Inaugural Ceremony cum Keynote Session #4 14:15-15:30		
Speaker: Ms. Lipika Behl, Chief Engineer (Scientific Officer-H+)		
Nuclear Power Corporation of India Limited, Department of Atomic Energy (DAE)		
Title: Role of NPCIL Simulation technologies in Nation Building		
Tea Break 15:30-16:00		
Saturday, 27 October 2018 16:00-17:30		
Session ID: WiE-1 (Image Processing)		
Paper ID	Title	Presenter
16	Debapriya Sengupta, “A Comparative Study of Some Well Known Image Registration Techniques”	Debapriya Sengupta
42	S Umamaheswari, Arjun R, and Meganathan D, “Weed detection in farm crops using parallel image processing”	S Umamaheswari

123	Aarti Goyal, and Toshanal Meenpal, "Detection of facial parts in kinship verification based on edge information"	Aarti Goyal
140	Neha Gour, and Pritee Khanna, "Optic Disc Segmentation using Vessel In-painting and Random Walk Algorithm"	Neha Gour
141	Nidhi Gupta, Shiwangi Mishra, and Pritee Khanna, "Glioma identification from brain MRI using superpixels and fuzzy c-means clustering"	Shiwangi Mishra
143	Ekta Panwar, Dharmendra Singh, Ankush Agarwal, and Vikas Pruthi, "An Efficient Application of Satellite Image for Biochemical Parameters Study in Sugarcane Crop"	Ekta Panwar
Saturday, 27 October 2018 16:00-17:30		
Session ID: WiE-2 (WSN and IoT)		
Paper ID	Title	Presenter
96	Amrita Datta, and Mou Dasgupta, "Underwater Wireless Sensor Networks: A Comprehensive Survey of Routing Protocols"	Amrita Datta
100	Sonam Maurya, and Vinod Kumar Jain, "Enhanced EECF: Enhanced Energy Efficient Coverage Preserving Protocol for Heterogeneous Wireless Sensor Networks"	Sonam Maurya
107	Vinod Kumar Jain, and Shruti Kajwadkar, "ECTX-CoAP : An Enhanced Context-Aware CoAP Extension for Smart Objects Discovery in Internet of Things"	Shruti Kajwadkar
108	Vinod Kumar Jain, and Shruti Kajwadkar, "A Novel Algorithm for DoS and DDoS attack detection in Internet Of Things"	Shruti Kajwadkar
110	Pratibha Sharma, Vinod Kumar Jain, and Avesh Kumar Uprawal, "EMAEER: Enhanced Mobility Aware Energy Efficient Routing Protocol for Internet of Things"	Pratibha Sharma
138	Anooja B, Bala Tripura Sundari B, and Supriya P, "Spectrum Sensing using Windowed Kurtosis for Cognitive Radios"	Anooja B
Saturday, 27 October 2018 16:00-17:30		

Session ID: WiE-3 (Software Systems)		
Paper ID	Title	Presenter
13	Yukti Mehta, Paramvir Singh, and Ashish Sureka*, “Analyzing Code Smell Removal Sequences for Enhanced Software Maintainability”	Yukti Mehta
22	D Sudheera, K Sirisha, K Inchara, and B Sivaselvan, “Knowledge Engineering Perspective of Video Compression”	Daggumalli Sudheera
22	D Sudheera, K Sirisha, K Inchara, and B Sivaselvan, “Knowledge Engineering Perspective of Video Compression”	Kona Sirisha
81	Nimisha Gupta, Mitul Kumar Ahirwal, and Mithilesh Atulkar, “Computational Model for Human Decision Making: A Study of Prospect Theory”	Nimisha Gupta
111	Indu Jain, Vinod Kumar Jain, and Renu Jain, “An improved Binary Particle Swarm Optimization (iBPSO) for Gene Selection and Cancer Classification using DNA Microarrays”	Indu Jain
Saturday, 27 October 2018 16:00-17:30		
Session ID: WiE-4 (Signal Processing)		
Paper ID	Title	Presenter
41	Shabya Gupta, Monika Chauhan, and Biswajeet Mukherjee, “Fractal on Hemispherical DRA by Descarte’s Circle Theorem for wide-band application	Monika Chauhan
46	Arpita Tandy, Monika Chauhan, and Biswajeet Mukherjee, “Investigation on Tetrahedral DRA with loaded monopole for ultra-wideband application”	Monika Chauhan
66	Priya Shukla, and Gora Nandi, “Reinforcement Learning for Robots with special reference to the Inverse kinematics solution”	Priya Shukla
97	Vandana Agarwal, Abhineet Saxena, and Vinit Kumar Siriah, “A Vector-based EEG Signal Feature Extraction Technique for BCI Applications”	Abhineet Saxena

Keynote Session #5 09:15-10		
Dr. Sunil Kumar Kopparapu, Principal Scientist, TCS Research & Innovation, Mumbai		
Title: Machine Learning in Speech Processing		
Sunday, 28 October 2018 10:30-11:45		
Session ID: S11 (Image Processing)		
Paper ID	Title	Presenter
87	Deepanshu Kathuria`, and Jyotsna Yadav, “An Improved Illumination Invariant Face Recognition Based on Gabor Wavelet Transform	Deepanshu Kathuria
90	Rangu Silpasai, Himanshu Singh, Anil Kumar, and L. K. Balyan, “Homomorphically Rectified Tile-wise Equalized Adaptive Gamma Correction for Histopathological Color Image Enhancement”	Rangu Silpasai
91	Rishi Sinhal, and Irshad Ahmad Ansari, “A blind and secured image watermarking method using DWT-DCT”	Irshad Ahmad Ansari
93	Sachin Taran, and Varun Bajaj “Drowsiness detection using electroencephalogram signals rhythms”	Sachin Taran
65	Shyam Singh Rajput, K. V. Arya, Vinay Singh, and Vijay Kumar Bohat, “Face Hallucination Techniques: A Survey”	Shyam Singh Rajput
Sunday, 28 October 2018 10:30-11:45		
Session ID: S12 (WSN)		
Paper ID	Title	Presenter
23	Sourav Gupta, Sushant Anand, Mohit Kumar, and Sanjeet Kumar, “Performance evaluation of an energy efficient clustering algorithm based on heterogeneous node deployment in a wireless sensor network”	Sanjeet Kumar
85	Mihir Kumar Jena, and Irshad Ahmad Ansari, “A Critical Review of Wireless Health Monitoring Devices”	Irshad Ahmad Ansari

89	Utkarsh Sonpatki, Sai Mothku, and Rashmi Ranjan Rout, "A Congestion-Aware Routing Protocol for Voluminous Data Collection in Wireless Sensor Networks"	Sai Krishna Mothku
99	Raj Vikram, Rina Kumari, Rajib Ghosh, and Ditipriya Sinha, "Localization of sensors in WSN during Emergency Services (LSWES)"	Raj Vikram
Sunday, 28 October 2018 10:30-11:45		
Session ID: S13 (Electronic Devices and Circuits)		
Paper ID	Title	Presenter
12	Lalthanpuii Khiangte, and Rudra Dhar, "Double Strained Channel MOSFET: Deep Into Sub-Microns"	Rudra Sankar Dhar
47	Pranjal Srivastava, Pritesh Kumar, and Prasanna Kumar Misra, "Design of 32 bit Asynchronous RISC CPU Using Micropipeline"	Pritesh Kumar Yadav
88	Asha Anil, Manjunath Koparde, Trilochan Panigrahi, and Ankit Dubey, "Determining "OFF" Time Duration of FPGA based GPS Tracking System"	Trilochan Panigrahi
133	Nagapuri Srinivas, Gayadhar Pradhan, and Puli Kishore Kumar, "FPGA Implementation of Zero Frequency Filter"	Nagapuri Srinivas
Tea Break 11:45-12:15		
Sunday, 28 October 2018 12:15-13:00		
Session ID: S14 (Image Processing)		
Paper ID	Title	Presenter
95	Yashwanth Kumar Mydam, Shyam Singh Rajput, and Prasenjit Chanak, "Low Rank Representation based Discriminative Multi Manifold Analysis For Low-Resolution Face Recognition"	Shyam Singh Rajput
117	Maheep Singh*, Mahesh Govil, and Emmanuel Pilli, "V-SIN: Visual Saliency detection in noisy Images using convolutional neural Network"	Maheep Singh

48	Awdhesh Pandey, Ankita Verma, and Prasanna Misra, “A 3.3dB Noise Figure,60-mW CMOS Receiver Front End for 865-867 MHz Band”	Ankita Verma
Sunday, 28 October 2018 12:15-13:00		
Session ID: S15 (Communication Systems)		
Paper ID	Title	Presenter
132	S. V. Raghavendra Kommuri, Himanshu Singh, Anil Kumar, and Varun Bajaj, “Bi-dimensional Empirical Mode Decomposition based Intrinsically Augmented Gamma Correction for Quality Restoration of Textural Images”	Sethu Venkata Raghavendra Kommuri
121	Ashwini Kumar Varma, and Debjani Mitra, “A Neural Network approach to Decision Fusion for Wideband Cooperative Sensing”	Ashwini Kumar Varma
124	Saikat Majumder, “Energy Detection Spectrum Sensing on RTL-SDR based IoT Platform”	Saikat Majumder
Sunday, 28 October 2018 12:15-13:00		
Session ID: S16 (Robotics)		
Paper ID	Title	Presenter
64	Aditya Singh, and G. C. Nandi, “Machine Learning based Joint Torque calculations of Industrial Robots”	Aditya Singh
102	Madhanagopal Manoharan, and Senthilkumaran Kumaraguru, “Path Planning for Direct Energy Deposition with Collaborative Robots: A Review”	Madhanagopal M
129	Vijay Rathore, and Sachin Kumar Jain, “Non-Intrusive Load Monitoring and Load Disaggregation using Transient Data Analysis”	Sachin Kumar Jain
Lunch Break 13:00-14:15		
Keynote Session # 6 14:30-15:30		
Prof. Swades De, Deptt. Of EE, IIT Delhi		
Title: Data-driven Performance Optimization for IoT Communications		
PhD Symposium and Closing Ceremony 15:30-17:30		

Tea | 17:30
