

Agenda for i4CD - 2018

**Venue: Bansuri Guru Auditorium, ITER, Siksha 'O' Anusandhan (Deemed to be University)
17 – 19th December 2018**

17 – 12 – 2018			18 – 12 – 2018			19 – 12 – 2018		
08:30 – 09:30	Registration	Lobby	09:30 – 11:30	Invited Talk – IV Prof. M. Mitra	E – 214	09:30 – 10:30	Invited Talk – VI Prof. P. K. Nanda	E – 214
							Invited Talk – VII Prof. G. P. S. C. Mishra	E – 314
09:45 – 10:30	Invited Talk – I Prof. G. S. Chae	Conference Hall	11:30 – 11:45	Tea break		10:30 – 10:45	Tea break	Lobby
10:30 – 10:45	Tea break	Lobby	11:45 – 01:15	Invited Talk – V Prof. D. Dutta	E – 214	10:45 – 12:00	Technical Session VII	E – 214
10:45 – 12:00	Invited Talk – II Prof. A. Routray	Conference Hall	01:15 – 02:00	Lunch Break		12:00 – 01:00	Valedictory Session	E – 214
12:00 – 1:00	Inauguration Session	Conference Hall	02:00 – 04:00	Technical Session III	E-214	01:15 – 02:00	Lunch	
1:15-2:00	LUNCH BREAK			Technical Session IV	E – 314			
3:15 – 5:15	Technical Session I	E – 214	04:00 – 06:00	Technical Session V	E – 214			
	Technical Session II	E – 314		Technical Session VI	E – 314			
Cultural Pogramme starts from 6:15 P.M								

Guests for i4CD 2018 inauguration

1. Prof. P. K. Padhi, Dean, CITE, Bhubaneswar (Guest)
2. Prof. P.K Patra, Dean, CET (Guest)
3. Prof. Amit Bannerjee, Vice Chancellor, SOA Deemed to be University
4. Prof. Manas Ranjan Mallick, Director, ITER, SOA Deemed to be University
5. Prof. P. K. Nanda, Dean R&D, SOA Deemed to be University
6. Prof. P. K. Sahoo, Dean, ITER, FET, SOA Deemed to be University
7. Prof. G. S. Chae, Baekseok University, South Korea
8. Prof. Arabinda Routray, IIT, Kharagpur
9. Prof. Bibhuprasad Mohanty, ITER, FET, SOA Deemed to be University
10. Prof. Niva Das, ITER, FET, SOA Deemed to be University

TECHNICAL SESSION I – COMMUNICATION

DATE: 17-12-2018

TIME: 3:15 PM – 5:15 PM

VENUE: E - 214

SESSION CHAIRS: PROF. B. D. SAHU, PROF. JAYASHREE RATNAM

SESSION MANAGER: PROF.PRAKASH KUMAR PANDA

Sl.	Paper ID	Authors	Title
1.	2E3_i4CD_CO_18	Ribhu Abhusan Panda , Preetibardhan Dash, Krishna Mandi, Pawan Kumar Nayak,	Clubs Shaped Patch Antenna with DGS for WLAN Application
2.	3E4_i4CD_CO_19	Nagesh N. Nazare, Premananda B.S.	Low-Power PFAL based Speculative Han-Carlson Adder for Signal Processing Applications
3.	4E5_i4CD_CO_20	Kaibalya Kumar Sethi ^{1,1} , Ashirwad Dutta ¹ , Gopinath Palai ¹ , Patha Sarkar ²	HAIRPIN STRUCTURE BAND PASS FILTER FOR IoT BAND APPLICATION
4.	5E12_i4CD_CO_21	Sanjana Sahoo, Guru Prasad Mishra, Manas Ranjan Jena, and Biswa Binayak Mangaraj	Sub-Sectional Tapered Printed-LPDA Design with WLAN, WiMAX Notch Bands for UWB Communication Systems
5.	6E17_i4CD_CO_22	Amir Abdullah, H. Kaur, R. Biswas	Universal Layers of IoT Architecture and its Security Analysis
6.	9E25_i4CD_CO_25	Rajender Kumar, Krishan Kumar, Amit Kant Pandit	Performance and Complexity Analysis of Motion Estimation using Multiple Constraints in Video Compression
7.	10E26_i4CD_CO_26	Krishan Kumar, Rajender Kumar, Dr. Amit Kant Pandit	Quality of Service Based Multimedia Data Transmission in Multi-Constraint Environment
8.	12m2_i4CD_CO_14	Seema Jangra ^{1,2} , Dr. Sobin C.C ³ , Dr. Amit Kant ¹	Performance analysis of Vehicular Delay Tolerant Networks Using Real Contact Traces
9.	13m3_i4CD_CO_15	K.P. Swain ¹ , M. Subudhi ² , S.R. Das ¹ , G. Palai ¹	OPTICAL LOCKING SYSTEM USING PHOTONIC CRYSTAL STRUCTURE
10.	47m1_i4CD_CO_31	Niranjan Panda, Binod Kumar Pattanayak	ACO based Secure Routing Protocols in MANETs
11.	51E29_i4CD_CO_27	Shaktijeet Mahapatra, Mihir Narayan Mohanty	Design of Novel Multi-band Rectangular Patch Antenna for Wireless Communications
12.	74m46_i4CD_CO_30	Ahmad Khader Habboush ¹ , Binod Kumar Pattanayak	A Review on Multicast Routing Protocols in MANETs
13.	81m56_i4CD_CO_33	1Namrata Mishra, 2Shrabanee Swagatika ,3Debabrata Singh	An Intelligent Framework for Analyzing Terrorism Actions using Cloud
14.	1E1_i4CD_CO_17	Ribhu Abhusan Panda, Mihir Panda, Pawan Kumar Nayak ³ , Debasish Mishra	Log Periodic Implementation of Butterfly Shaped Patch Antenna with Gain Enhancement Technique for X-Band Applications
15.	7E18_i4CD_CO_23	Jayashree Ratnam ¹ ,and Sabita Mali ²	Power-efficiency in Asymmetrically-Clipped Optical OFDM System with Truncated-PAPR
16.	8m55_i4CD_CO_32	Vinita Kumari ^{1*} , Mohd Iqbal ¹	Development of model for sustainable development in Agriculture using IoT based Smart farming
17.	61m33_i4CD_CO_28	Mohammad Reza Hosenkhan, Binod Kumar Pattanayak	Security Issues in Internet of Things (IoT):A Comprehensive Review

TECHNICAL SESSION II – MICROWAVES, ANTENNAS AND DEVICES

DATE: 17-12-2018

TIME: 3:15 PM – 5:15 PM

VENUE: E - 314

SESSION CHAIRS: PROF. LAXMI PRASAD MISHRA, PROF. SIDHARTHA DASH

SESSION MANAGER: PROF. MANORANJAN DAS

Sl.	Paper ID	Authors	Title
1.	19E7_i4CD_DE_1	Satish Kumar Das, Sudhansu Mohan Biswal, Sanjit kumar Swain ³ , Biswajit Baral ⁴	Analysis of Junction-less Triple-Material Cylindrical Surrounding Gate MOSFET.
2.	20E8_i4CD_DE_2	G S Sahoo ^{1*} , S Dash ¹ , and G P Mishra ²	Incorporation of different quantum superlattices in a single junction GaAs Solar cell: A comparative study
3.	21E14_i4CD_DE_3	Sikha Mishra ¹ , Soumya S. Mohanty ^{2*} , Subhashree Bhol ² and Guru Prasad Mishra ³	A Compact Analytical model and Electrostatic performance investigation of Multilayer groove gate SOI-MOSFET
4.	22E15_i4CD_DE_4	Soumya S Mohanty ¹ , Sikha Mishra ^{2*} , Debatanaya Sathpathy ² and Guru Prasad Mishra ³	An extensive simulation based study of symmetrical work function variation of In _{0.53} Ga _{0.47} As/InP DG hetero MOSFET
5.	64m36_i4CD_DE_5	Sristi Dasgupta, Jeemut Bahan Sangri, Farida A Ali, Priyabrata Pattanaik, Sushanta K. Kamilla	Fabrication of n-ZnO/p-Si Heterojunction by Chemical Wet and Dry (CWD) Method
6.	35m57_i4CD_DE_7	Usharani panda, Arun K. Das, Farida A. Ali, Priyabrata Pattanaik, Sushant K. Kamilla	Effect of transition metal doped ZnO coated on Al working electrode prepared by sol-gel CWD for electrochemical biosensor
7.	69m41_i4CD_DE_6	Subhashree Patra ¹ , Kamal Lochan Mohanta ^{1*} , Chhatrapati Parida ²	Mechanical analysis of bio-composites using Gamma irradiated fibers of luffa cylindrica
8.	53M26_i4CD_MA_17	Anupa Chatterjee ¹ , Manas Midya ² , L.P. Mishra ³ , M. Mitra ⁴	A novel compact diamond shaped slot antenna for UWB application
9.	66m38_i4CD_MA_18	Satya Swaroop Nanda, Jabakankshya Das, Sarmistha Satrusalya, Mihir Narayan Mohanty	Design of Multiband Microstrip Antenna for Ku-Band Applications
10.	79E32_i4CD_MA_20	Sanjay Kumar Sahu, Bhukya Arun Kumar, Kaibalya Kumar Sethi	DUAL NOTCH BAND REJECTED FILTER WITH DEFECTED SLOT FOR WLAN AND SATELLITE APPLICATIONS
11.	48M24_i4CD_MA_15	Diksha ¹ and Vipin Gupta ²	Quality Assessment of Massive Multiple-Input Multiple-Output (MIMO) Wireless Systems
12.	49M25_i4CD_MA_16	Barsa Samantaray, Kunal Kumar Das and Jibendu Sekhar Roy	Performance of Variable Step-size LMS Algorithm for Beamforming of Smart Antenna of Dipole Array
13.	70m43_i4CD_MA_19	Priyadarshini Raiguru ¹ , R.K. Mishra ² , Mihir Narayan Mohanty	DOA Estimation considering Mutual Coupling with Fractal based Array using Model Based Approach

TECHNICAL SESSION III – SOFT COMPUTING AND MACHINE LEARNING - 1

DATE: 18-12-2018

TIME: 2.00 PM TO 4:00 PM

VENUE: E - 214

SESSION CHAIRS: PROF. B. K. PATTANAYAK, PROF. NIVA DAS

SESSION MANAGER: PROF. VASUNDHARA

Sl.	Paper ID	Authors	Title
1.	32E23_i4CD_SM_19	Srikanta Kumar Mohapatra ,Sushanta Kumar Kamilla, Tripti Swarnkar, Gyana Ranjan Patra	Forecasting world petroleum fuel crisis by Nonlinear Autoregressive Network
2.	36m11_i4CD_SM_22	Bishnupriya Panda	A novel approach for breast cancer classification using Deepforest network
3.	37m12_i4CD_SM_23	Rakesh Kumar	Android App based Cryptographic End-to-End Verifiable Election System
4.	38m13_i4CD_SM_24	Mitali Madhusmita Sahoo, Rasmita Dash, Rajashree Dash, Rasmita Rautray	CUCKOO SEARCH ALGORITHM: A REVIEW
5.	39m14_i4CD_SM_25	SayantanaSaha , Arnab Mitra	Towards exploration of Green computing in energy efficient optimized algorithm for uses in Fog computing
6.	40m15_i4CD_SM_26	Sipra Sahoo, Mihir Narayan Mohanty	Stock Market Price Prediction employing Artificial Neural Network optimized by Grey Wolf Optimization
7.	42m17_i4CD_SM_28	Madhusmita Sahu	RSA based Encryption and Decryption of any Text withthe help of XOR operation and Color MappingTechnique
8.	43m18_i4CD_SM_29	Soumen Nayak, Nabajyoti Majumdar, Chiranjeev Kumar ¹ , Sachin Tripathi	An Improved Approach to Enhance the Test Case Prioritization Efficiency
9.	44m19_i4CD_SM_30	Sangram Panigrahi, Kesari Verma, and Priyanka Tripathi	Qualitative Analysis of RSA: A Land Cover Change Detection Algorithm
10.	45m20_i4CD_SM_31	SmitaPrava Mishra, Priyanka Kumari	Analysis of Techniques for Credit Card Fraud Detection: A Data Mining Perspective
11.	46m21_i4CD_SM_32	Sushree Bibhuprada B. Priyadarshini ^{1, *}	Concentric Quadrivial Scalar Premier Selection Scheme based on Sensing Region Segregation (CQSPS-SRS): An innovative Marching towards Optimum Camera Actuation and Enhanced Event Coverage in Wireless Multimedia Sensor Networks
12.	50E28_i4CD_SM_33	Rajeswari, P. Kanungo, T. Pattnaik and P. K. Sahoo	Mean feature based Age estimation
13.	56m29_i4CD_SM_34	Narmada Ranarahu, J.K. Dash	A New Type of Fuzzy Transportation Problem
14.	65m37_i4CD_SM_38	Bindu Rani ¹ and Shri Kant	An Approach towards Integration of Big data into Decision Making Process
15.	67m39_i4CD_SM_39	Saumendra Kumar Mohapatra ¹ , M N Mohanty ²	Big Data Analysis and Classification of Bio-medical Signal using Random Forest Algorithm
16.	72m42_i4CD_SM_40	Manjit Bahadur Singh, Sushobhan Pal, Siddharth Mohanty and M K Debnath	Use of Fuzzy Enabled FOPID Controller for AGCInvestigation Utilizing Squirrel Search Algorithm
17.	82m57_i4CD_SM_43	Manisha Chate ¹ , VinayaGohokar	Vehicle detection using faster Recurrent Convolution Neural Network
18.	83m58_i4CD_SM_44	Manisha Chate ¹ , Vinaya Gohokar 2	Effective pedestrian detection and tracking invaring light conditions

TECHNICAL SESSION IV - SOFT COMPUTING AND MACHINE LEARNING - 2

DATE: 18-12-2018

TIME: 2.00 PM TO 4:00 PM

VENUE: E - 314

SESSION CHAIRS: PROF. AJIT NAIK, PROF. TRIPTI SWARNKAR

SESSION MANAGER: PROF. KUNDAN KUMAR

Sl.	Paper ID	Authors	Title
1.	84m59_i4CD_SM_45	Monalisa Jena, and Satchidananda Dehuri	An Experimental Study on Decision Tree Classifier Using Discrete and Continuous Data
2.	86E33_i4CD_SM_46	N Md Jubair Basha and Sankhayan Choudhury	An algorithmic approach for evaluation and assessment of reusability of software components
3.	28E9_i4CD_SM_15	Saswat Sahoo, Santosh Kumar Majhi	Building a Re-Selling System using the Ethereum Blockchain Technology
4.	41m16_i4CD_SM_27	Madhusmita Das, Rasmita Dash	Visual Cryptography for Colour Image using Symmetric Key
5.	91m65_i4CD_SM_48	Shweta Kharya, Sunita Soni, Tripti Swarnkar	Weighted Bayesian Association Rule Mining Algorithm to construct Bayesian Belief Network
6.	27E2_i4CD_SM_14	Ashish kumar mourya ¹ , Harleen Kaur ¹ , Moin Uddin ¹	A Novel Approach to Heterogeneous Multi-Class SVM Classification
7.	29E11_i4CD_SM_16	Ashish kumar mourya ¹ , Harleen Kaur ¹ , Moin Uddin ¹	An Ensemble Approach to Model Selection using Deep Support Vector Machine with Genetic Algorithm
8.	30E13_i4CD_SM_17	ShafqatUIAhsaan, Harleen Kaur, and SameenaNaaz	An Empirical Study of Big Data: Opportunities, Challenges and Technologies
9.	31E19_i4CD_SM_18	Ipsita Pradhan, SmitaPrava Mishra, Ajit Kumar Nayak	A Collation of Machine Translation Approaches with Exemplified Comparison of Google and Bing Translators
10.	33E24_i4CD_SM_20	Subhabrata Acharya and Pradipta Kumar Nanda	Fast adjacent LBP based background modelling for foreground detection in video sequences
11.	52m22_i4CD_SM_42	Archana Sarangi, Shubhendu Kumar Sarangi , Bibhuprasad Mohantyand Shweta Prasad Bhusal	Gaussian Mutated Particle Swarm Optimization with Modified Velocity for Function Optimization
12.	62m34_i4CD_SM_36	Sandhya. N. ¹ , Rama Prasath. A	Application of Artificial Intelligence Methods for Detection of Fronto Temporal Dementia
13.	63m35_i4CD_SM_37	Suneha Panda ¹ , Mamata Nayak ¹ , Ajit Kumar Nayak	Clustering of Odia Character Images using K-means Algorithm & Spectral Clustering Algorithm
14.	76m48_i4CD_SM_41	Nilima R. Das ¹ , Satyananda C. Rai ² , and Ajit Nayak ¹	Energy Cost Minimization with Reduced Dissatisfaction for Household Consumers
15.	80m51_i4CD_SM_42	Bhavya Alankar, Nowsheena Yousof, and Shafqat UI Ahsaan	Predictive Analytics for Weather Forecasting Using Back propagation and Resilient Back Propagation Neural Network

TECHNICAL SESSION V – POWER AND CONTROL

DATE: 18-12-2018

TIME: 04:00 P M TO 06:00 PM

VENUE: E - 214

SESSION CHAIRS: PROF. PRAVAT KUMAR ROUT, PROF. SANJIB KUMAR KAR

SESSION MANAGER: PROF. SIKHA MISHRA

Sl.	Paper ID	Authors	Title
1.	16m4_i4CD_PC_13	Manjit Bahadur Singh, Sushobhan Pal, Siddharth Mohanty ¹ , and Manoj Kumar Debnath	Use of Fuzzy Enabled FOPID Controller for AGC Investigation Utilizing Squirrel Search Algorithm
2.	18m6_i4CD_PC_15	Manorath Prasad, Subhranshu Sekhar Puhana, and Subham Patra	Contingency selection in the context of voltage security margin determination
3.	54m27_i4CD_PC_18	Jaffar Sadiq Ali, A and Ramesh,G.P	ANALYSIS OF OPEN, CLOSED LOOP PI , PID & FLC CONTROLLABLE WIND ENERGY SYSTEM USING Γ - ZSI WITH PMSM
4.	57m10_i4CD_PC_23	Basanta K.Panigrahi, Anshuman Bhuyan, Arpan. K.Satapathy, Raturaj. Pattanayak and Bhagyashree Parija	Fault Analysis of Grid Connected Wind/PV Distributed Generation System
5.	73m45_i4CD_PC_20	Tanmoy Parida Niranjana Nayak, Himanshu Shekhar Sahoo	Dynamic Stability Improvement of STATCOM Based Power System Using Optimized Improved Sliding Mode Controller
6.	77m49_i4CD_PC_21	Mohan Debarchan Mohanty, Mihir Naryan Mohanty	Design of Fuzzy Logic based PID Controller for Heat Exchanger used in Chemical Industry
7.	78m50_i4CD_PC_22	Raghavendra Vedula, Amitash Nanda, KeshabKishor Swain, Siddharth Das ¹ , Mihir Narayan Mohanty	Plant Sustainability Monitoring Using Unmanned Aerial Vehicle
8.	17m5_i4CD_PC_14	Tapas Kumar Mohapatra, Binod Kumar Sahu	Implementation of SSA based Fuzzy FOPID controller for AGC of multi area interconnected Power System with diverse source of generation
9.	14E16_i4CD_PC_16	Ambika Prasad Hota and Sivkumar Mishra,	A new approach for fair loss allocation in radial distribution networks with various types of distributed generators.
10.	15E20_i4CD_PC_17	Sangeeta Sahu, Byamakesh Nayak	Optimization of PI Coefficients of PMSM Drive Using Particle Swarm Optimization
11.	60m30_i4CD_PC_19	Devbrat Gupta, Vishal Goyal, Jitendra kumar	An Optimized Fractional Order PID Controller for Integrated Power System

TECHNICAL SESSION VI – SIGNAL AND IMAGE PROCESSING

DATE: 18-12-2018

TIME: 04:00 PM TO 06:00 PM

VENUE: E - 314

SESSION CHAIRS: PROF. KUNAL DAS, PROF. MANOJ KUMAR NAIK

SESSION MANAGER: PROF. KUNTAL GHOSH

Sl.	Paper ID	Authors	Title
1.	23E6_i4CD_SI_16	Deepika Palo ¹ and Ribhu Abhusan Panda ²	Ease of Designing Fractional Filters Compared to Integer Order Filters
2.	26m8_i4CD_SI_15	Janardhan chidadala, Sri Nagesh Maganti, and Prakash N	Automatic Seeded Selection Region Growing Algorithm for Effective MRI brain Image Segmentation and Classification
3.	55m28_i4CD_SI_18	Arvind Kumar, S. K. Dash, Mahesh Chandra	Language diversity and technology development on languages of Jharkhand
4.	58m31_i4CD_SI_19	Krishna Dutta, Salam Nadakishore and Debadatta Pati	Combining multiple evidences for Performance Improvement in Speaker Recognition System
5.	59m32_i4CD_SI_20	Salam Nandakishor and Debadatta Pati	Extraction of Lip Contour and Geometric Lip Features for Audio-Visual Phoneme Recognizer
6.	68m40_i4CD_SI_21	Janardhan Chidadala ¹ , Venkata Ramanaiah Kota ² , Babulu K	High Level Synthesis of VLSI based Image Scaling Architecture for High Definition Displays
7.	71m44_i4CD_SI_22	Bikash Meher, S. Agrawal	A Multimodality Medical Image Fusion Method Using Region Based Approach
8.	75m47_i4CD_SI_23	Pritisman Kar ¹ , Mihir Narayan Mohanty	An Intelligent approach to detect Cracks on a surface in an Image
9.	11m56_i4CD_SI_24	Dr. Jitesh R. Shinde, Dr. Sanjeev Sharma Ms. Lipsa Dash	An Optimization Design Approach for Arithmetic Logic Unit
10.	24E27_i4CD_SI_17	Sandhyalati Behera ¹ and Mihir Narayan Mohanty ^{2*}	A novel approach for Artifact Removal from Brain Signal
11.	25m7_i4CD_SI_14	Dinesh Kumar ¹ , Sunil Ahuja ² , Sorab Kumar ³ , Mihir Narayan Mohanty	Sentiment Study Approach Based on Chart Summarization