INDICON-2021 TECHNICAL PROGRAM

19.12.2021 (Sunday)

Time / Halls >	H1	H2	H3	H4	H5	H6
08.30-09.00	Registration [Venue: Auditorium Lobby]					
09:00-11.00	Inauguration + HOPE Programme + PGCIL Award [Venue: H1]					
11:00-11.20	High Tea					
11:20-12:10	Key Note- 1: [Venue: H1] Some Machine Learning Algorithms in Computational Biology Speaker: Prof. Sanghamitra Bandyopadhyay, ISI Kolkata Session Chair: Prof. M.K. Bhuyan, IIT Guwahati					
12:10-13:30	Tutorial-1 SC: Prof. S. B. Nair	Tutorial-2 SC: Prof. P.K.Das	Tutorial-3 SC: Dr. Nityananda Sarma	Tutorial-4 SC: Prof. Hemangee K. Kapoor		
13:30-14:20	Lunch Break					
14:20-16:00	Tutorial-1 contd.	Tutorial-2 contd.	Tutorial-3 contd.	Tutorial-4 contd.	EC Meeting IEEE-IC	
16:00-17:50	AGM IEEE-IC and Award Ceremony [Venue: H1]					
18:00-18:50	Key Note- 2: [Venue: H1] Advancements & Translational Research on Imaging in Osteoporosis Speaker: Prof. Punam Saha, University of Iowa Session Chair: Prof. Diganta Goswami, IIT Guwahati					
18:50-19:00	Tea Break					
19:00-20:00	Plenary Lecture: [Venue: H1] IT+IT=IT: Inclusive, scalable and sustainable development for India. Speaker: Mr. Dinanath Kholkar, Global Head, Analytics & Insights Unit, TCS Session Chair: Ms. Sudeshna Choudhury, TCS					

20.12.2021 (Monday)

Time / Halls >	H1	H2	H3	H4	H5	H6
08.30-09.00	Registration [Venue: Auditorium Lobby]					
09:00-10.00	Key Note-3: [Venue: H1] In-Memory Computing based ML Accelerators: Opportunities and Challenges Prof. Kaushik Roy, Purdue University, USA Session Chair: Prof. Susmita Sur-Kolay, ISI Kolkata					
10.00-10.20	Tea Break					
10.20-11.40	Session 1A (AI&DS) - 8	Session 1B (PE&PE) - 8	Session 1C (CNI) - 8	Session 1D (DCS) - 8	Session 1E (CBBI) - 8	Session 1F (RC) - 8
11.40-12.00	Tea Break					
12:00-13:20	Session 2A (AI&DS) - 8	PGCIL-1 + Session 2B (PE&PE) -6	Session 2C (CNI) - 8	Session 2D (SPM) - 8	Session 2E (CBBI) - 8	Session 2F (RC) - 8
13:20-14:30	Lunch Break					
14:30-15:50	Session 3A (AI&DS) - 8	PGCIL-2 + Session 3B (PE&PE) 6	Session 3C (CNI) - 8	Session 3D (SPM) - 8	Session 3E (CBBI) - 8	Session 3F (RC) - 7
15:50-16:10	Tea Break					

16:10-17:40	Session 4A (AI&DS) - 8	Invited Talk-1 + Session 4B (PE&PE) - 5	Session 4C (CNI) - 6	Session 4D (SPM) - 8	Session 4E (CAES) - 9	Session 4F Ph.D Forum
17:40-18:00	Tea Break					
18:00-18:15	WIE Track Inauguration Session [Venue: H1]					

Panel Discussion: Do women face Implicit Bias as a major challenge in their career?
Panelists:
Dr. Anita Jhunjhunwala Mukherjee, Savant Care, San Francisco Bay Area, USA
Dr. Lipika Dey, Principal Scientist, TCS Research, Delhi
Prof. Sourav Chakraborty, Indian Statistical Institute, Kolkata
Ms. Richa Singh, Co-founder & CEO, Your DOST, Bengaluru
Moderator: Ms. Sudeshna Mukhopadhyay, Havells India Ltd, Kolkata

(18:15- 19.15)

WIE Plenary Invited Talk [Venue: H1]
Life as an IITian, an Academician, and a Business Woman
Speaker: Dr. Parvati Dev, CEO at SimTabs, Stanford University, USA

(19:15- 20.15)

20:15-20:30	WIE Award Session and Vote of Thanks
20:30-21:30	Conference Banquet

21.12.2021 (Tuesday)

Time / Halls >	H1	H2	H3	H4	H5	H6
08.30-09.00	Registration [Venue: Auditorium Lobby]					
09:00-10.00	Key Note- 4: [Venue: H1] How to Look into the Box without Opening it: Active Learning for Hidden Query Extraction Speaker: Prof. Jayant Haritsa, Indian Institute of Science Bangalore Session Chair: Prof. Vivek Shripad Borkar, IIT Bombay					
10.00-10.20	Tea Break					
10.20-11.40	Session 5A (C&I) - 8	Session 5B (PE&PE) - 8	Session 5C (AMT) - 8	Session 5D (V&N)-7	Session 5E (DCS) - 8	
11.40-12.00	Tea Break					
12:00-13:20	Session 6A (C&I) - 8	Session 6B (S&P)-7	Session 6C Demo	Session 6D (V&N)-8	Session 6E (CBBI) - 4	
13:20-14:20	Lunch Break					
14:20-15:20	Session 7A (C&I) - 4	Session 7B (S&P)-6	Session 7C (AMT) - 5	Session 7D (SPM) - 5	Session 7E Invited Talk-2	

Industry Forum   [Venue: H1]
Session Chair: Ms. Sudeshna Choudhury, TCS
Invited Talk: Value of collaborative initiatives of IEEE with Industry
Speaker: Dr. Surekha Deshmukh, Power and Energy Domain Consultant, TCS

(15:20-15:50)

Sponsor Talk: How 5G is creating opportunities for a sustainable and futuristic society?
Speaker: Mr. Indrajit Sanyal, Head of Service Delivery, Ericsson

(15:50-16:20)

Sponsor Talk: A Resilient and Smart Power Distribution System
Speaker: Mr. Sanjoy Mukherjee, Executive Director, CESC Ltd.

(16:30-17:00)

Panel Discussion: Self reliant and sustainable employment: Challenges in Industry in post COVID Era
Panelists:
Mr. Atharva Poundarik (Chairperson, Industry and Corporate Relations, IIT Ropar)
Mr. Sunit Nandi (Founder and Leading Officer, Techno FAQ Digital Media)
Mr. Angad Singh (Founder & CEO, Anhad Edutrain Solutions Private Ltd)
Moderator:
Mr. Shiban Banerjee (Co- Founder & CEO, Knowledge Ark Technologies)

(17:10-18:10)

18:10-18:30	Valedictory Function and Best Paper Awards [Venue: H1]

	Tutorial Title	Speakers
Tutorial-1	**Artificial Intelligence Augmented Robotic Neurorehabilitation**	Shyamanta M. Hazarika, Cota Navin Gupta, (IIT Guwahati), Upasana Talukdar (IIIT Guwahati)
Tutorial-2	**Extraction of Excitation Component Information from Speech and its Applications: A Review**	Sudarsana Reddy Kadiri, Paavo Alku, (Aalto University, Finland), B. Yegnanarayana (IIIT Hyderabad)
Tutorial-3	**Inter-antenna interaction and its effects in MIMO wireless**	Rakhesh Singh Kshetrimayum (IIT Guwahati)
Tutorial-4	**Photonics and plasmonics for intrachip and chip-to-chip Interconncets**	P. K. Basu, (University of Calcutta)

Invited Talk-1	**Remote Monitoring of High Voltage Transmission Line Insulators** Prof. Sivaji Chakravorti, Jadavpur University
Invited Talk-2	**Towards a Whiter Deep Learning Model** Prof. Goutam Chakraborty, Iwate Prefectural University, Japan

PGCIL-1 (Session 2B)	Dr. Subba Reddy Basappa, IISc Bangalore
PGCIL-2 (Session 3B)	Mr. Phanisankar Chilukuri, Power System Operation Corporation
Demo (Session 6C)	Dr. Krishnamurthy Nagarajan, CouthIT, Hyderabad

Track Name	Session No.	Session Chairs, Affiliation
Tutorial-1	Day-1, 12.10 to 16.00 hours [4 parallel tracks]	Prof. S. B. Nair, Indian Institute of Technology Guwahati
Tutorial-2		Prof. P.K.Das, Indian Institute of Technology Guwahati
Tutorial-3		Prof. Nityananda Sarma, Tezpur University
Tutorial-4		Prof. Hemangee K. Kapoor, Indian Institute of Technology Guwahati
AI&DS	1A	Dr. Kartick Chandra Mondal, Jadavpur University, Kolkata
		Dr. Kamal Sarkar, Jadavpur University, Kolkata
	2A	Dr. Anirban Mukhopadhyay, University of Kalyani, West Bengal
		Dr. Nibaran Das, Jadavpur University, Kolkata
	3A	Dr. Debotosh Bhattacharjee, Jadavpur University, Kolkata
		Dr. Sujoy Chatterjee, University of Petroleum and Energy Studies, Dehradun
	4A	Dr. Ram Sarkar, Jadavpur University, Kolkata
		Dr. Susmita Ghosh, Jadavpur University, Kolkata
AMT	5C	Dr. A R Harish, Indian Institute of Technology Kanpur
		Dr. K.J. Vinoy, Indian Institute of Science Bangalore
	7C	Dr. Jayanta Mukherjee, Indian Institute of Technology Bombay
		Dr. M. M. Sharma, Malaviya National Institute of Technology Jaipur
CNI	1C	Dr. Nandini Mukherjee, Jadavpur University, Kolkata
		Dr. Chandreyee Chowdhury, Jadavpur University, Kolkata
	2C	Dr. Sudipta Chattopadhyay, Jadavpur University, Kolkata
		Dr. Salil Kumar Sanyal, Jadavpur University, Kolkata
	3C	Dr. Sarbani Roy, Jadavpur University, Kolkata
		Dr. Samiran Chattopadhyay, Jadavpur University, Kolkata
	4C	Dr. Sanjoy Kumar Saha, Jadavpur University, Kolkata
		Dr. Jaydeb Bhaumik, Jadavpur University, Kolkata
	1E	Dr. Subhadip Basu, Jadavpur University, Kolkata
		Dr. Mita Nasipuri, Jadavpur University, Kolkata
	2E	Dr. Piyali Chatterjee, Netaji Subhash Engineering College, Garia

CBBI	2E	Dr. Sayantari Ghosh, National Institute of Technology Durgapur
	3E	Dr. Indrajit Saha, NITTTR, Kolkata
		Dr. Anasua Sarkar, Jadavpur University, Kolkata
	6E	Dr. Sumanta Ray, Aliah University, Kolkata
		Dr. Vibin Ramakrishnan, Indian Institute of Technology Guwahati
CAES	4E	Dr. Debiprasana Sahoo, Indian Institute of Technology Roorkee
		Dr. T.V. Kalyan, Indian Institute of Technology Ropar
C&I	5A	Dr. Madhubanti Maitra, Jadavpur University, Kolkata
		Dr. Paramita Chattopadhyay, Indian Institute of Engineering Science and Technology, Shibpur
	6A	Dr. Amitava Chatterjee, Jadavpur University, Kolkata
	7A	Dr. Anindita Sengupta, Indian Institute of Engineering Science and Technology, Shibpur
		Dr. Smita Sadhu, Jadavpur University, Kolkata
DCS	1D	Dr. Angsuman Sarkar, Kalyani Government Engineering College
		Dr. P. P. Sahu, Tezpur University
	5E	Dr. Manas Chanda, Meghnad Saha Inst. of Tech., Kolkata
		Dr. Anup Dandapat, National Institute of Technology Meghalaya
PE&PE	1B	Dr. Sreenath J G, Indian Institute of Technology Guwahati
		Dr. V. N. Lal, Indian Institute of Technology, BHU
	2B	Dr. A. Ravindranath, Indian Institute of Technology Guwahati
		Dr. Abheejeet Mohapatra, Indian Institute of Technology Kanpur
	3B	Dr. Chandan Kumar, Indian Institute of Technology Guwahati
		Dr. Olive Ray, Indian Institute of Technology Bhubaneswar
	4B	Dr. Sanjib Ganguly, Indian Institute of Technology Guwahati
		Dr. Sandip Chanda, Ghani Khan Choudhury Institute of Engineering & Technology
	5B	Dr. Praveen Tripathy, Indian Institute of Technology Guwahati
		Dr. Sanjoy Kumar Parida, Indian Institute of Technology Patna
RC	1F	Dr. Arijit Sur, Indian Institute of Technology Guwahati
		Dr. S. K. Dwivedy, Indian Institute of Technology Guwahati
	2F	Dr. Sriparna Saha, Indian Institute of Technology Patna
		Dr. Samrat Mondal, Indian Institute of Technology Patna
	3F	Dr. Sankha Deb, Indian Institute of Technology Kharagpur
		Dr. Debashis Sen, Indian Institute of Technology Kharagpur
S&P	6B	Dr. Rakesh Matam, Indian Institute of Information Technology Guwahati
		Dr. Subhasish Dhal, Indian Institute of Information Technology Guwahati
	7B	Dr. Ferdous Ahmed Barbhuiya, Indian Institute of Information Technology Guwahati
		Dr. Mayank Agarwal, Indian Institute of Technology Patna
SPM	2D	Dr. Saumik Bhattacharya, Indian Institute of Technology Kharagpur
		Dr. M.K. Bhuyan, Indian Institute of Technology Guwahati
	3D	Dr. Himanshu Kumar, Indian Institute of Technology Jodhpur
		Dr. Amrita Mishra, Indian Institute of Information Technology Bangalore
	4D	Dr. Abhay Sah, Indian Institute of Technology Roorkee
		Dr. Rajib Kumar Jha, Indian Institute of Technology Patna
	7D	Dr. Bhabesh Deka, Tezpur University
		Dr. Tandra Pal, National Institute of Technology Durgapur
V&N	5D	Dr. Rahul Shrestha, Indian Institute of Technology Mandi
		Dr. Arun Tej, Indian Institute of Technology Guwahati
	6D	Dr. Saroj Mondal, BITS Pilani, Hyderabad Campus
		Dr. Brajesh Rawat, Indian Institute of Technology Ropar
PhD Forum	4F	Dr. Shirshendu Das, Indian Institute of Technology Ropar
		Dr. Mayank Agarwal, Indian Institute of Technology Patna
Invited Talk -2	7E	Dr. Pabitra Mitra, Indian Institute of Technology Kharagpur

Track Code	Track Name	Sessions Numbers	Count
AI&DS	AI & Data Science	1A, 2A, 3A, 4A	33
AMT	Antenna & Microwave Techniques	5C, 7C	13
CNI	Communications, Networks & IoT	1C, 2C, 3C, 4C	30
CBBI	Computational Biology & Biomedical Informatics	1E, 2E, 3E, 6E	28
CAES	Computer Architecture & Embedded Systems	4E	9
C&I	Control & Instrumentation	5A, 6A, 7A	20
DCS	Devices Circuits & Systems	1D, 5E	16
PE&PE	Power, Energy & Power Electronics	1B, 2B, 3B, 4B, 5B	33
RC	Robotics & Cybernetics	1F, 2F, 3F	23
S&P	Security & Privacy	6B, 7B	13
SPM	Signal Processing & Multimedia	2D, 3D, 4D, 7D	28
V&N	VLSI & Nanotechnology	5D, 6D	15
		36 sessions	261

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PAPERWISE SCHEDULE

Track	Session	Paper 1	Paper 2	Paper 3	Paper 4	Paper 5	Paper 6	Paper 7	Paper 8	Paper 9
AI & DS	1A	1570720230	1570720680	1570729999	1570734439	1570734609	1570734923	1570735365	1570735410	
	2A	1570740414	1570747272	1570747399	1570747990	1570743025	1570743257	1570743306	1570743544	
	3A	1570743634	1570744443	1570750143	1570750749	1570747486	1570750779	1570748020	1570748971	
	4A	1570737632	1570738552	1570749374	1570742678	1570750994	1570751269	1570751272	1570733985	1570735199
AMT	5C	1570733972	1570735024	1570735254	1570735307	1570735402	1570735887	1570736899	1570741430	
	7C	1570740039	1570741239	1570740330	1570744797	1570748111				
CNI	1C	1570728122	1570733730	1570734045	1570734356	1570734374	1570734568	1570734875	1570734970	
	2C	1570736417	1570747160	1570739409	1570739423	1570740939	1570742549	1570743545	1570743823	
	3C	1570746261	1570738548	1570751242	1570747312	1570747470	1570747978	1570747992	1570748005	
	4C	1570748083	1570750095	1570750816	1570750883	1570751139	1570747285			
CBBI	1E	1570733885	1570735818	1570735914	1570736442	1570736451	1570738554	1570739739	1570739793	
	2E	1570742369	1570742763	1570743038	1570743340	1570743543	1570743581	1570743981	1570744733	
	3E	1570745349	1570745909	1570747310	1570747453	1570747903	1570747917	1570747923	1570748042	
	6E	1570749025	1570750325	1570750580	1570751417					
CAES	4E	1570735545	1570742989	1570747676	1570750291	1570751802	1570750582	1570751141	1570751389	1570747862
C&I	5A	1570714625	1570719647	1570726219	1570739796	1570735312	1570735583	1570740169	1570742165	
	6A	1570727622	1570737801	1570738310	1570744049	1570743243	1570743562	1570742661	1570744341	
	7A	1570747631	1570748037	1570750182	1570751045					
DCS	1D	1570734707	1570735138	1570740791	1570742490	1570742590	1570743951	1570747484	1570747983	
	5E	1570744107	1570751289	1570747945	1570746797	1570748008	1570751266	1570747577	1570751367	
PE&PE	1B	1570725037	1570729248	1570731425	1570732865	1570734321	1570734924	1570735567	1570735937	
	2B	PGCIL-1		1570743811	1570743956	1570745915	1570737630	1570739619	1570747997	
	3B	PGCIL-2		1570740277	1570742818	1570742954	1570743063	1570743327	1570743725	
	4B	Invited Talk-1			1570748028	1570739220	1570738111	1570746803	1570747953	
	5B	1570750703	1570750912	1570750926	1570751089	1570751287	1570739637	1570748026	1570737617	
RC	1F	1570743555	1570747966	1570735397	1570745624	1570747262	1570751000	1570747596	1570738990	
	2F	1570734612	1570743820	1570743969	1570744648	1570735438	1570735609	1570736101	1570751072	
	3F	1570747878	1570747954	1570735394	1570749888	1570750490	1570750966	1570738307		
S&P	6B	1570744063	1570739514	1570739735	1570740329	1570747910	1570742007	1570742606		
	7B	1570743841	1570739219	1570741411	1570749890	1570748276	1570751342			
SPM	2D	1570735884	1570727722	1570728028	1570733416	1570734859	1570735253	1570735287	1570716203	
	3D	1570736394	1570739043	1570739628	1570739792	1570739801	1570741249	1570741959		
	4D	1570743240	1570743478	1570743632	1570743769	1570744392	1570746606	1570746949	1570747553	
	7D	1570747899	1570748082	1570749491	1570751225	1570751311				
V&N	5D	1570730337	1570734618	1570736055	1570751180	1570739026	1570746702	1570733242		
	6D	1570747658	1570747837	1570747882	1570750740	1570751148	1570738877	1570751265	1570746468	

BLUE COLOUR (PHYSICAL PRESENTER *)

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TRACKWISE LIST

Track	Session	Paper ID	Paper Title	Authors
AI&DS	1A	1570720230	A Neural Network Approach with Iterative Strategy for Long-term PM2.5 Forecasting	K. Krishna Rani Samal (National Institute of Technology Rourkela, India); Korra Babu (Indian Institute of Information Technology, Design and Manufacturing, India); Santos Ku Das (National Institute of Technology Rourkela, India)
AI&DS	1A	1570720680	Time Series Forecasting of Air Pollution using Deep Neural Network with Multi-output Learning	K. Krishna Rani Samal (National Institute of Technology Rourkela, India); Korra Babu (Indian Institute of Information Technology, Design and Manufacturing, India); Santos Ku Das (National Institute of Technology Rourkela, India)
AI&DS	1A	1570729999	A CNN-BiLSTM-SVR based Deep Hybrid Model for Water Quality Forecasting of the River Ganga	Aishwarya Premlal Kogekar (National Institute of Technology, Rourkela, India); Rashmiranjan Nayak (National Institute of Technology Rourkela, India); Umesh Chandra Pati (National Institute of Technology, Rourkela, India & NIT Rourkela, India)
AI&DS	1A	1570734439	Modelling of Churn in Indian Politics: A Case Study of Andhra Pradesh	Narayana Darapaneni (Northwestern University School of Professional Studies, India & Great Learning, India); Easwar Krishna Iyer (Great Lakes Institute of Management, India)
AI&DS	1A	1570734609	Comparative Performance Investigation of MIMO-OTFS and MIMO-OFDM using Deep Neural Network Modeling	Manoj Joshi, Gaurav Punjabi and B. Sainath (BITS Pilani, India); Ananthakrishna Chintanpalli (BITS PILANI, PILANI CAMPUS, India)
AI&DS	1A	1570734923	Privacy preserving and secure machine learning	Akshay Prabhu and Niranjana Balasubramanian (Vidyalankar Institute of Technology, India); Chinmay Tiwari (Vidyalankar Institute Of Technology, India); Rugved Deolekar (Vidyalankar Institute of Technology, India)
AI&DS	1A	1570735365	GL-DDEA: Global and Local Surrogate Based Framework for Solving Offline Data-Driven Evolutionary Optimization	Subhadip Pramanik and Adrijit Goswami (Indian Institute of Technology Kharagpur, India)
AI&DS	1A	1570735410	Automatic Modulation Classification: A Novel Convolutional Neural Network Based Approach	Deep Jariwala and Kamal Manharlal Captain (Sardar Vallabhbhai National Institute of Technology, India)
AI&DS	2A	1570740414	VarDenGrid: A New Variable Density Clustering Algorithm with Grid-Based Initialization	Rohit Paul and Somnath Pal (Indian Institute of Engineering Science and Technology, Shibpur, India)
AI&DS	2A	1570747272	Benchmarking Shallow and Deep Neural Networks for Contextual Representation of Social Data	Reshma Unnikrishnan and Sowmya S Kamath (National Institute of Technology Karnataka, India); Ananthanarayana Vs (National Institute of Technlogy Karnataka, India)
AI&DS	2A	1570747399	Quality Assessment of Deep Learning Based Super Resolution Techniques on Thermal Images	Shashwat Pandey and Darshika Sharma (MNNIT Allahabad, India); Basant Kumar (Motilal Nehru NIT Allahabad, India); Himanshu Singh (IRDE, DRDO, India)
AI&DS	2A	1570747990	A pinball loss support vector machine based regression model	Pritam Anand (Dhirubhai Ambani Institute of Information and Communication Technology, India)
AI&DS	2A	1570743025	Predictive Modeling of Healthcare Professional's Stress Based on XGBoost Model	Pooja Gupta (DIT University, Dehradun, India); Srabanti Maji and Ritika Mehra (DIT University, India)
AI&DS	2A	1570743257	SInGER: A Recommendation System based on Social-Influence-aware Graph Embedding Approach	Sucheta Dawn, Monidipa Das and Sanghamitra Bandyopadhyay (Indian Statistical Institute, India)
AI&DS	2A	1570743306	Sweep Nearest Algorithm for Capacitated Vehicle Routing Problem	Neha Sehta (Shri G S Institute of Technology and Science, Indore, India); Urjita Thakar (Shri G. S. Institute of Technology and Science, India)
AI&DS	2A	1570743544	AI Driven Edge Device for Screening Skin Lesion and Its Severity in Peripheral Communities	Chathura N JaiKishore (VIT, Vellore, India); Venkanna U. (IIIt Naya Raipur, India); Debanjan Das (IIIT Naya Raipur, India)
AI&DS	3A	1570743634	RNN Encoder and Decoder with Teacher Forcing Attention Mechanism for Abstractive Summarization	Shaik Rafi and Ranjita Das (NIT Mizoram, India)
AI&DS	3A	1570744443	Infant Mood Prediction and Emotion Classification with Different Intelligent Models	Reuben Johann Rosen, Debadeepta Tagore, Tharun Iyer and Ruban Nersisson (Vellore Institute of Technology, Vellore, India); Alex Noel Joseph Raj (Shantou University, China)
AI&DS	3A	1570750143	A Deep Learning Model for Redundancy Analysis Algorithm Recommendation	Atishay Kumar, Helik Kanti Thacker, Ankit Gupta and Keerthi Kiran Jagannathachar (Samsung Semiconductor India Research and Development, India); Deokgu Yoon (Samsung Electronics, Korea (South))
AI&DS	3A	1570750749	An Autoencoder Based Approach to Enable High Fidelity Video Conferencing over Low Bandwidth Networks	Ashish Kumar Sahani (Indian Institute of Technology Ropar, India); Shourya Kulshrestha and Akshay Jain (IIT Ropar, India)
AI&DS	3A	1570747486	Iterative Dense Network using Laplacian Pyramid Model for Blind Super Resolution	Shashikant Deepak (National Institute of Technology, Rourkela, INDIA, India); Chanda Singh and Dipti Patra (National Institute of Technology Rourkela, India)
AI&DS	3A	1570750779	Machine Learning Method to Discover the Novel Association of Vaccine and Vitamin A Supplement on Covid 19 Infection: A Biclustering Approach	Namita Jain and Susmita Ghosh (Jadavpur University, India)
AI&DS	3A	1570748020	Consistency Analysis of NLP Approaches for a Conference Reviewer-Manuscript Match-Making System	Nishith Kotak (DAIICT, Gandhinagar, India); Anil Roy (DAIICT, India); Sourish Dasgupta (RAx Labs Inc., USA); Tirthankar Ghosal (Institute of Formal and Applied Linguistics, Charles University, Czech Republic)
AI&DS	3A	1570748971	Deep Learning Oriented Satellite Remote Sensing for Drought and Prediction in Agriculture	Yogesh Dhyani and Rahul Jashvantbhai Pandya (Indian Institute of Technology, Dharwad, India)
AI&DS	4A	1570737632	Machine Comprehension Comparison using Latest Advancements in Deep Learning	Aryan Kumar Singh and Kapil Gyanchandani (NIT Calicut, India); Pramod Kumar Singh (ABV-IIITM Gwalior, India); Jay Prakash (National Institute of Technology Calicut)
AI&DS	4A	1570738552	A Script Independent Hybrid Feature Extraction Technique for Offline Handwritten Devanagari and Bangla Character Recognition	Raghunath Dey, Rakesh Chandra Balabantaray and Jayashree Piri (IIIT Bhubaneswar, India)

Track	Session	Paper ID	Paper Title	Authors
AI&DS	4A	1570749374	Robust Portfolio Design and Stock Price Prediction Using an Optimized LSTM Model	Jaydip Sen (Praxis Business School, India); Saikat Mondal (Praxis Business School, Kolkata, INDIA, India); Gourab Nath (Praxis Business School, Bangalore, INDIA, India)
AI&DS	4A	1570742678	A weighted critic update approach to Multi Agent Twin Delayed Deep Deterministic Algorithm	Tamal Sarkar and Shobhanjana Kalita (Tezpur University, India)
AI&DS	4A	1570750994	Exploiting Web Snippets for Multi-label Anime Genre Prediction	Joyeta Sharma and Abu Nowshed Chy (University of Chittagong, Bangladesh)
AI&DS	4A	1570751269	Exploiting Ensemble of Transformer Models for Detecting Informative Tweets	Abu Nowhash Chowdhury, Shawon Guha, Nurul Amin and Shahidul Islam Khan (International Islamic University Chittagong, Bangladesh)
AI&DS	4A	1570751272	Cube Sampled K-Prototype Clustering for Featured Data	Seemandhar Jain (IIT Indore, India); Aditya A. Shastri (NMIMS, Shirpur, India); Kapil Ahuja (IIT Indore, India); Yann Busnel (IMT Atlantique & IRISA, France); Navneet Pratap Singh (Bennett University, Greater Noida, UP)
AI&DS	4A	1570733985	Level Sensitive Context Aware Translation Suggestions	Supriya Mandal (Mirafra Technologies, India); Pavithra C P (Mirafra Software Technologies Pvt. Ltd, India); Purvi Shah (Pratham Books, India)
AI&DS	4A	1570735199	Improved Prediction of Agronomic Models with Outlier Detection and Region-based Clustering	Sahitya Mondal, Chayan Biswas and Chitrita Chaudhuri (Jadavpur University, Kolkata, India)
AMT	5C	1570733972	Lotus Shaped Printed Antenna For UWB Applications	Anett Antony (Indian Institute of Information Technology Guwahati, India); Bidisha DasGupta (Indian Institute of Information Technology, India)
AMT	5C	1570735024	A Highly Efficient High Power Doherty Power Amplifier with Large Output Back-Off Range for Base Station Application	Dushayant Kumar Sharma, Parag Aggarwal and Kalyan Giri (Wipro Limited, India); Anirban Sengupta and Mrinal Kanti Mandal (Indian Institute of Technology, Kharagpur, India); Subhas Chandra Mondal (Wireless & Wipro Technologies, India); Ravi Bura (Wipro Limited, India)
AMT	5C	1570735254	Liquid Crystal Polymer based Tunable Microstrip Filter at Q-Band	Nishant Shukla (IIT Kanpur, India)
AMT	5C	1570735307	A Novel Wideband 3-dB Branch Line Coupler Using Capacitively-Couple Coupled Line	Dushayant Kumar Sharma (Wipro Limited, India)
AMT	5C	1570735402	High Gain Compact Antipodal Vivaldi Antenna for UWB Applications	Diddi Pavitra Varsha (Indian Institute of Information Technology Design and Manufacturing Kancheepuram, India); Pallepogu Prasanna Kumar (IIITDM Kancheepuram, India); Prerna Saxena (Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram, India)
AMT	5C	1570735887	Jaya's Algorithm Derived Cavitation Inspired Lightweight and Broadband Microwave Absorbing Structure	Ravi Yadav (PDPM-Indian Institute of Information Technology Design & Manufacturing Jabalpur, India); Ravi Panwar (IIIT Jabalpur, India)
AMT	5C	1570736899	Ka Band approach for mitigating communication blackout	Danthi Susheel kumar and Sachin Jain (DRDO, India)
AMT	5C	1570741430	Multi-Folded Bandpass Filter with Harmonic Suppression by Meander Spurline	Tarun Kumar Das (Future Institute of Engineering and Management, India); Pritam Paul, Suprava Das and Sayan Chatterjee (Jadavpur University, India)
AMT	7C	1570740039	A Wideband Circularly Polarized Endfire Microstrip Antenna	Anantha Bharathi (Osmania University, India); Lakshminarayana Merugu (Electronics Research Laboratory, India)
AMT	7C	1570741239	Circularly Polarized Graphene Antenna for THz Applications	Amit Sharma (PDPM IIITDMJ, India); Dinesh Vishwakarma (PDPM-IIITDM Jabalpur, India)
AMT	7C	1570740330	Ultra-Wideband Microstrip Filter Using Interdigital Coupled Line Ring Resonator	Deepraj Chowdhury and Vasu Nand (IIIT Naya Raipur, India); Maifuz Ali (DSPM IIIT Naya Raipur, India); Lakhindar Murmu (DSPM IIIT NR, India); Kalyan Mondal (NIT MANIPUR India); T. Mandal (GCETT SERAMPORE, INDIA)
AMT	7C	1570744797	Half Substrate Integrated Waveguide Based Wideband Slot Antenna	Meha Agrawal (Indian Institute of Information Technology Design and Manufacturing, Jabalpur, India); Trivesh Kumar (Indian Institute of Information Technology, Design and Manufacturing, Jabalpur, India)
AMT	7C	1570748111	Design and Analysis of Dual Band Tapered-Fed Monopole Antenna for 5G and Satellite Applications	Jayshri S Kulkarni (Vishwakarma Institute of Information Technology, India); Chow-Yen-Desmond Sim (Feng Chia University, Taiwan); Rajendra Talware (Vishwakarma Institute of Information Technology, Pune, India); Vivek Deshpande (Vishwakarma Institute of Information Technology, India); Abhijit Chitre (Vishwakarma Institute of Information Technology, INDIA, India); Jaume Anguera (Fractus Antennas & Universitat Ramon Llull, Spain)
CNI	1C	1570728122	Performance Analysis of 5G NR PUCCH Format 0 Receiver	Sriram Tadavarty (The MathWorks India Private Limited, India); Nanda Kishore Chavali (Mathworks India Pvt Ltd., India)
CNI	1C	1570733730	Full Duplex Relay Assisted Coded Cooperation for Next Generation Wireless Networks	Sagnik Bhattacharyya and Pankaj Kumar (IIT Ropar, India); Sam Darshi (Indian Institute of Technology Ropar, India); Omraj Burnwal (IIT Bombay, India); Kushal Singhal (Huawei Telecommunications (I) Co Pvt Ltd., India)
CNI	1C	1570734045	Experimental Analysis of Deep Learning-based Modulation Classification in Indoor Environments	Tamizhelakkiya K (Chandhar Research Labs Pvt.Ltd, India); Prabhu Chandhar (Chandhar Research Labs Pvt Ltd, India)
CNI	1C	1570734356	Secrecy Capacity of Hybrid, Outage-based Power Adaptive, Cooperative Relaying Networks with Imperfect CSI	Anuj Deshmukh, Devashree Paithankar and B. Sainath (BITS Pilani, India)
CNI	1C	1570734374	Pricing Scheme for UAV-Enabled Charging of Sensor Network	Ajay Kumar Gupta (IIT Delhi & MAIT Delhi, India); Saptarshi Ghosh (G. H. Raisoni College of Engineering, Nagpur, India); Manav Bhatnagar (Indian Institute of Technology Delhi, India)
CNI	1C	1570734568	Outage Analysis for Drone Assisted Multi-user Coded Cooperation	Pankaj Kumar and Sagnik Bhattacharyya (IIT Ropar, India); Sam Darshi (Indian Institute of Technology Ropar, India)

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CNI	1C	1570734875	Outage Performance Analysis of a Multihop Relaying Network With Two-Stage Relay Selection under Rayleigh Fading Channel	Oleti Nagi Reddy (Indian Institute of Information Technology Design and Manufacturing (IIITDM) Kancheepuram, India); Keerthana Kandasamy (IIITDM Kancheepuram, India); Mandha Damodaran Selvaraj (Indian Institute of Information Technology, Design and Manufacturing, India)
CNI	1C	1570734970	Energy Profiling based Load-Balancing Approach in IoT-Edge for Split Computing	Jyotirmoy Karjee (Samsung, Bangalore, India); Praveen Naik S and Srinidhi N (Samsung R&D Institute, Bangalore, India)
CNI	2C	1570736417	Deployment of Computer Vision Application on Edge Platform	Geetha Vasantha and Kiran C (National Institute of Technology Karnataka Surathkal, India); Manash Sharma (National Institute of Technology Karnataka, Surathkal, India); Rakshith Kumar J (National Institute of Technology Karnataka, India)
CNI	2C	1570747160	A Novel Interference-aided RF Energy Harvesting scheme for Cooperative NOMA Network	Chandrima Thakur and Sudipta Chattopadhyay (Jadavpur University, India)
CNI	2C	1570739409	Impact of Spatial Correlation on Sum-Rate Capacity in MU-MIMO Broadcast Channels	Swadhin Mishra (in National Institute of Science and Technology, Berhampore, India); Ashok Panda (International Institute of Information Technology, Bhubaneswar, India); Arunanshu Mahapatro (VSSUT, Burla, India); Radhashyam Patra (VSS University of Technology, Burla, India)
CNI	2C	1570739423	NOMA Based Generalized Precoding Aided Spatial Modulation with Multiuser MIMO in Downlink	Shekhar Pratap Singh (IIT Rookee, India); Pyari Mohan Pradhan (IIT Roorkee, India)
CNI	2C	1570740939	Machine Learning based Vehicle-to-Infrastructure Communication in VANETs	Mamata Sataraddi (Basaveshwar Engineering College (Autonomous), Bagalkot, Karnataka, India); Mahabaleshwar S. Kakkasageri (Basaveshwar Engineering College, Bagalkot, India)
CNI	2C	1570742549	Solving Multi-Objective Hierarchical Hub Facility Location Problem Using GA-Based Approaches	Arup Kumar Bhattacharjee (RCC Institute of Information Technology, India); Anirban Mukhopadhyay (University of Kalyani, India)
CNI	2C	1570743545	Impact of HARQ Retransmission on VoLTE Call Blocking in Cellular LTE	Mohan Kumar Dehury and Hemanta Kumar Pati (IIIT Bhubaneswar, India)
CNI	2C	1570743823	sCalib: A Warehouse Sensor Fault Detection and Self-Calibration Technique for Sustainable IoT	Aparna Sinha (International Institute of Information Technology Naya Raipur, India); Debanjan Das (IIIT Naya Raipur, India)
CNI	3C	1570746261	Localization for Flow assisted Molecular Communication Networks in the Presence of Inter-Symbol Interference	Ajit Kumar (IIT Patna, India); Sudhir Kumar (Indian Institute of Technology Patna, India)
CNI	3C	1570738548	A T-BS and a UAV Based IoT enabled D2D Network for Disaster Management	Sayanti Ghosh and Sanjay Dhar Roy (National Institute of Technology Durgapur, India); Sumit Kundu (National Institute of Technology, Durgapur, India)
CNI	3C	1570751242	Level Crossing Rate and Average Fade Duration of RIS-Assisted RF Communication System	Amina Girdher (IIT Jammu, India); Ankur Bansal and Ankit Dubey (Indian Institute of Technology Jammu, India)
CNI	3C	1570747312	A Combined Spectrum Prediction and Sensing Approach for Cognitive Radios	Abdul Rahim, V C (Indian Institute of Space Science and Technology, India); Chris Prema (Deemed & Indian Institute of Space Science and Technology, Trivandrum, India)
CNI	3C	1570747470	Sum Rate Analysis of Cooperative NOMA Over Dual-Hop Wireless-Power Line Communication	Roopesh Ramesh (Pes University, India); Sanjeev Gurugopinath (PES University, India)
CNI	3C	1570747978	KNN based Novel Recommendation System for Mobile Edge Caching	Sourab Mishra (Indian Institute of Technology Indore, India); Sparsh Bansal and Krishnendu S (Indian Institute of Technology, Indore, India); Vimal Bhatia (Indian Institute of Technology Indore, India)
CNI	3C	1570747992	An improved multi-IRS aided MISO system using multivariate analysis	Gyana Ranjan Mati (National Institute of Technology, Rourkela, Odisha, India); Susmita Das (National Institute of Technology, India); Tapesh Swami (NIT Rourkela, India)
CNI	3C	1570748005	Enhancement of Precision on Cloud Data using Multi-Layered Bloom Filter	Saptarsi Saha and D V N. Siva Kumar (BITS Pilani Hyderabad Campus, India)
CNI	4C	1570748083	Spectrum Auction Mechanism Based on Concurrent Bidding for Channel Allocation in Ad Hoc CRNs	Monisha Devi, Nityananda Sarma and Sanjib K. Deka (Tezpur University, India)
CNI	4C	1570750095	Distributed DBA Scheme for Fog Node Equipped LR-EPON Based FiWi Network	Ateet Gupta, Vinod Chandra, Subhajit Mukherjee and Aneek Adhya (Indian Institute of Technology Kharagpur, India)
CNI	4C	1570750816	Bilateral Access Control with Traceability and Revocability in Secure Cloud-Fog Computing Framework	Vishnu Kalgi (National Institute of Technology, Warangal, India); Priyanka Parimi and Rashmi Ranjan Rout (National Institute of Technology Warangal, India)
CNI	4C	1570750883	Fuzzy Logic based Task Scheduling Algorithm in Vehicular Fog Computing Framework	Krishnanand Rai, Satish Vemireddy and Rashmi Ranjan Rout (National Institute of Technology Warangal, India)
CNI	4C	1570751139	Adaptive Replacement Cache with Quality of Service for Delay Sensitive Applications in Named Data Networking	Prajjwal Singh and Nityananda Sarma (Tezpur University, India)
CNI	4C	1570747285	Particle Swarm Optimization based Task Offloading in Vehicular Edge Computing	Niharika Keshari and Tejas Gupta (Motilal Nehru National Institute of Technology Allahabad, India); Dinesh Singh (Motilal Nehru National Institute of Technology Prayagraj, India)
CBBI	1E	1570733885	Multi-Class Classification on Chest X-Ray Images Using Convolution Neural Network	Bipal Khanal and Astha Singh (Sikkim Manipal University, India); Sourav Paul (Sikkim Manipal Institute of Technology, India); Ranjita Das (NIT Mizoram, India)
CBBI	1E	1570735818	Improvement in ECG R-peak detection compared to conventional methods using LSTM	Soubarna Chowdhury (IIEST Shibpur, India); Chaity Sarkar (Dr. B.C. Roy Engineering College, India); Aparajita Sengupta (IIEST Shibpur, India)
CBBI	1E	1570735914	Classification of Seizure Types Based on Statistical Variants and Machine Learning	Anand Shankar (Indian Institute of Information Technology, Guwahati, India); Samarendra Dandapat (Indian Institute of Technology Guwahati, India); Shovan Barma (Indian Institute of Information Technology Guwahati, India)
CBBI	1E	1570736442	Emergent Regulatory Response and Shift of Half induction point under Resource Competition in Genetic circuits	Priya Chakraborty (National Institute of Technology Durgapur India, India); Sayantari Ghosh (NIT Durgapur, India)
CBBI	1E	1570736451	Effects of Vaccination Decisions and Peer influence on Epidemic Dynamics: A Network Perspective	Ganapati Dash (National Institute of Technology, Durgapur, India); Kumar Gaurav (Indian Institute of Technology, Kanpur, India); Sayantari Ghosh (NIT Durgapur, India)

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CBBI	1E	1570738554	Automatic Kernel Selection of Support Vector Machine for Drug/Non-Drug Compounds Classification	Lakshmi Mandal and Nanda Jana (National Institute of Technology Durgapur, India)
CBBI	1E	1570739739	Deep Learning-based Mixed Data Approach for COVID-19 Detection	Santosh Sanjeev (Gokaraju Rangaraju Institute of Engineering and Technology, India); Balne Charithchandrasai (Gokaraju Rangaraju Institute of Engineering & Technology, India); Tudi Jayadeep Reddy (Gokaraju Rangaraju Institute of Engineering and Technology, India); Gogulamudi Pradeep Reddy (VIT-AP University, India)
CBBI	1E	1570739793	Osteosarcoma Classification using Multilevel Feature Fusion and Ensembles	Bhuma Chandra Mohan (Bapatla Engineering College, India)
CBBI	2E	1570742369	RecU-Net++: Improved Utilization of Receptive Fields in U-Net++ for Skin Lesion Segmentation	Rukhshanda Hussain and Hritam Basak (Jadavpur University, India)
CBBI	2E	1570742763	Breast Cancer Prediction using Supervised Machine Learning Techniques	Sonal Singh (International Institute of Information Technology, Naya Raipur, India); Jatin Prasad (International Institute of Information Technology, NayaRaipur, India); Shivangini Prasad (International Institute of Information Technology, Naya Raipur, India); Srinivas Naik (IIIT Naya Raipur, India)
CBBI	2E	1570743038	Binary classification of meditative state from the resting state using EEG	Jerrin Thomas Panachakel (Indian Institute of Science & MILE Laboratory, India); Pradeep Kumar Govindaiah and Kanishka Sharma (Indian Institute of Science, India); Ramakrishnan Angarai Ganesan (Indian Institute of Science & RaGaVeRa Indic Technologies Pvt Ltd, India)
CBBI	2E	1570743340	Retinal Blood Vessel Segmentation using a Multi-Scale Layer in Deep Learning	Supratim Ghosh, Mahantapas Kundu and Mita Nasipuri (Jadavpur University, India)
CBBI	2E	1570743543	A Non-Fiducial Noise Robust VMD-based Framework for ECG-based Biometric Recognition	Tilendra Choudhary (Indian Institute of Technology Guwahati, India); Mousumi Das, L N Sharma and Manas Kamal Bhuyan (IIT Guwahati, India)
CBBI	2E	1570743581	Speed Invariant Gait Event Identification using Dynamic Time Warping	Jayeeta Chakraborty, Harin Santosh Dabbiru and Anup Nandy (National Institute of Technology Rourkela, India)
CBBI	2E	1570743981	Follicle Segmentation from Ultrasound images of Ovary by using sub-band entropy-based wavelet thresholding and object contours	Manas Sarkar (North Bengal University, India); Ardhendu Mandal (University of North Bengal, India)
CBBI	2E	1570744733	An Audio Signal-based COVID-19 Detection Methodology using Modified DenseNet121	Shrabana Saha and Rajarshi Bhadra (Maulana Abul Kalam Azad University of Technology, India); Subhajit Kar (Institute of Engineering and Management, India)
CBBI	3E	1570745349	A Decision Support System for Prediction of Paroxysmal Atrial Fibrillation based on Heart Rate Variability Metrics	Dipen Deka (Central Institute of Technology, Kokrajhar, India); Bhabesh Deka (Tezpur University, India)
CBBI	3E	1570745909	Huffman Coding based ECG Processing For Compression-Distortion Tradeoff	Debarpan Bhattacharya (Jadavpur University, India)
CBBI	3E	1570747310	A Study of Kidney Exchange Problem and its Recent Challenges	Sanjeev Kumar and Bhabendu kumar Mohanta (K L University, India)
CBBI	3E	1570747453	Parkinson's Disease Classification from Magnetic Resonance Images (MRI) using Deep Transfer Learned Convolutional Neural Networks	Iswarya Kannoth Veetil and Gopalakrishnan E A (Amrita Vishwa Vidyapeetham, India); V Sowmya (Amrita Vishwavidyapeetham, India); Soman K P (Amrita Vishwa Vidyapeetham, India)
CBBI	3E	1570747903	Causal Connectivity based Classification of Functional MRI data	J Siva Ramakrishna (M. S. Ramaiah University of Applied Sciences, India); Hariharan Ramasangu (Research, India)
CBBI	3E	1570747917	Segmentation and Classification of Brain Tumors using Deep Learning Techniques	Gaurav Chandra (SRM Institute of Science and Technology, India); Ms. Shambhavi and Pushp Paritosh (Sri Ramaswamy Memorial Institute of Science and Technology, India); Sriparna Saha (IIT Patna & Department of CSE, India)
CBBI	3E	1570747923	Cognitive State Classification using Optimized Feature Selection Approach	J Siva Ramakrishna (M. S. Ramaiah University of Applied Sciences, India)
CBBI	3E	1570748042	Coronavirus Infection Segmentation & Detection Using UNET Deep Learning Architecture	Naman Saxena (Indian Institute of Science, Bengaluru, India); Ekam Singh Chahal (Jaypee Institute Of Information Technology, Noida, India); Adwitiya Sinha (Jaypee Institute of Information Technology, Noida, India); Satish Chand (Netaji Subhas Institute of Technology, India)
CBBI	6E	1570749025	Selecting an Optimizer to Detect the Field of View for CT and MRI Brain Images	Leena Chandrashekar (RVCE, India); Dinesh M n (R V College of Engineering, India)
CBBI	6E	1570750325	Application of Computer Science in Pineapple Cultivation and Diagnosis of its Diseases- A Systematic Study	Pritimoy Sanyal (Maulana Abul Kalam Azad University of Technology, West Bengal, India); Achyuth Sarkar (NIT, Arunachal Pradesh, India)
CBBI	6E	1570750580	Cellular Automata based Coupled Nephron Model for Pressure-Driven Oscillations	Siva Manohar Reddy Kesu (M S Ramaiah University of Applied Sciences, India); Hariharan Ramasangu (Research, India)
CBBI	6E	1570751417	Multibranch 1D CNN for Detection and Localization of Myocardial Infarction from 12 Lead Electrocardiogram Signal	Pharvesh Salman Choudhary (IIT Guwahati, India); Samarendra Dandapat (Indian Institute of Technology Guwahati, India)
CAES	4E	1570735545	PRFL: Predicate Rank based Fault Localization	Sangharatna Godboley (National Institute of Technology Warangal, India); Arpita Dutta (National University of Singapore & NUS, Singapore)
CAES	4E	1570742989	Implementation and Performance Analysis of Indian Sign Language Recognition on various Computing Devices	Eshaan Rathi and Jatin Luthra (LNM Institute of Information Technology, India); Abhishek Sharma (The LNM Institute of Information Technology, India)
CAES	4E	1570747676	Energy Efficient Approximate MACs	Thejaswini P (JSS Academy of Technical Education, India); John Jose and Sukumar Nandi (Indian Institute of Technology Guwahati, India)
CAES	4E	1570750291	Precise Shared Instruction Cache Analysis to Estimate WCET of Multi-threaded Programs	Paraman Padma Priya Dharishini and Prakriya Murthy (Ramaiah University of Applied Sciences, India)
CAES	4E	1570751802	Novel Approach for Detection, Localization, and Mitigation of Malicious Node in NoC based SoC	Sachin Bagga (GURU NANAK DEV ENGG. COLLEGE, LUDHIANA, India); Ruchika Gupta (Chandigarh University, India)

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CAES	4E	1570750582	Extended Base-Delta Compression Technique for On-chip Data Transfer	Vivekananda G and Thejaswini P (JSS Academy of Technical Education, India)
CAES	4E	1570751141	Hardware Accelerator for Object Detection using Tiny YOLO-v3	Manan Sharma (National Institute of Technology Karnataka, Surathkal, India); Rahul R (India); Madhusudan S and Deepu Sp (National Institute of Technology Karnataka, Surathkal, India); Sumam David S. (National Institute of Technology Karnataka, India)
CAES	4E	1570751389	Long-Distance Communication via Pseudo-3D Networks-on-Chip	Gagan N and Biswajit R. Bhowmik (NIT Karnataka, India)
CAES	4E	1570747862	Low Power, Light Weight and Transparent Multi-Chip Communication Link for IoT Segment	Ankit Gupta (Intel Technology India Pvt Ltd., India); Saksham Soni and Sriram Muthukumar (Intel Technology, India); Dileep John Kurian (Intel, India); Venkataramana Parvatha (Intel Technology India Pvt Ltd & Intel, India)
C&I	5A	1570714625	Development of Event triggered Feed forward Control Scheme for Fed-Batch E.coli Fermentation Process	Lufunyo Betania Lupenza (Anna University & ATC, Tanzania); Sutha Subbian and Chitra Murugan (Anna University, India)
C&I	5A	1570719647	Self-Powered Intelligent Street Light Management System for Smart City	Prajnyajit Mohanty (National Institute of Technology Rourkela, India); Umesh Chandra Pati (National Institute of Technology, Rourkela, India & NIT Rourkela, India); Kamala Kanta Mahapatra (National Institute of Technology, India)
C&I	5A	1570726219	Design and experimental validation of non-singular terminal sliding mode control for level control system	Mukesh Ghogare (University of Pune & College of Engineering, Pune, India); Sanjay Patil (College Of Engineering Pune, India); Chetankumar Patil, Ajit Laware and Lalit Chaudhari (University of Pune, India)
C&I	5A	1570739796	Pitch Channel Tracking Control of an Autonomous Underwater Vehicle with Delayed Output	Ravishankar Prakash Desai (BITS Pilani K K Birla Goa Campus Goa, India); Narayan S Manjarekar (BITS Pilani K K Birla Goa Campus, India)
C&I	5A	1570735312	UDE based RISE controller for Active Flutter Suppression of 2D Aerofoil	Balraj Sharma (Defence Institute of Advanced Technologies, Pune, India); Abhishek Dixit, Pooja Agrawal and Ajay Misra (Defence Institute of Advanced Technology, India)
C&I	5A	1570735583	Achieving Synchrony in Physical Systems with Mutual Adaptation	Swethaashri Ramesh, Gayatri Sreenivasan, Vittal Srinivasan and Rajini Makam (PES University, India); Koshy George (SRM University AP, India)
C&I	5A	1570740169	Modelling and Control of a nonlinear distillation column: A, using fractional-order controllers	Omar Hanif (The University of Sheffield, United Kingdom (Great Britain) & The University of Manchester, United Kingdom (Great Britain)); Shipra Tiwari (National Institute of Technology, India); Vivek Kumar (National Institute of Technology Warangal, India)
C&I	5A	1570742165	Robust Observer-based Sliding Mode Control of a Pressurized Water Reactor	Soubhagia Suheesan (K. K. Wagh Institute of Engineering Education and Research, India); Ravindra Munje (University of Pune & K K Wagh Institute of Engineering Education and Research, India)
C&I	6A	1570727622	Stealthy GPS Spoofer Design by Incorporating Processing Time and Clock Offsets	Pardhasaradhi Bethi (National Institute of Technology - Karnataka, India); Pathipati Srihari, Dr (National Institute of Technology Karnataka, India)
C&I	6A	1570737801	Design and Validation of a Fail-safe Digital Igniter tester for Pyro initiator health measurement	Noel Philip (Vikram Sarabhai Space Centre); Saroop A and Latha T. (ISRO, India); Saleem Haneefa (Vikram Sarabhai Space Centre, India)
C&I	6A	1570738310	Pulse Train Modulation And ANN Based Temperature Sensor With Semi-automatic Calibration	Pranabendra Prasad Chandra, Debarpan Bhattacharya, Biswajit Bhattacharyya and Sugata Munshi (Jadavpur University, India)
C&I	6A	1570744049	A Framework for Digital PID Controller for Undergraduate Control Systems Laboratory Usage	Pranabendra Prasad Chandra (Jadavpur University)
C&I	6A	1570743243	Comparative Analysis of Modern Control Schemes in Improved Dynamics of Inverted Pendulum	Faizan Jan, Shakir Hussain Bhat, Amir Iqbal, Danish Akbar Itoo and Abdul Rouf Lone (University of Kashmir, India); Shoeb Hussain (National Institute of Technology Srinagar, India)
C&I	6A	1570743562	Speed Control of Hybrid Electric Vehicle using cascade control of Fractional order PI and PD controllers tuned by PSO	Ashruti Upadhyaya (IIT Guwahati); Prerna Gaur (Netaji Subhas University of Technology & IEEE DELHI SECTION, India)
C&I	6A	1570742661	Application of PID and Sliding Mode Control on Quadcopter for Autonomous Optimized Flight	Mohammad Saad (Visvesvaraya National Institute of Technology, India); Chinmay Rajhans (Veermata Jijabai Technological Institute, India); Surender Kannaiyan (Visvesvaraya National Institute of Technology, India)
C&I	6A	1570744341	Control of Boost Converter using Internal Model Control scheme in single loop and in cascade control structure	Purnima Verma (National Institute of Technology Patna, India); Md Nishat Anwar (NIT Patna, India)
C&I	7A	1570747631	Application of Robust Nonlinear Model Predictive Control to Unstable Tank Reactor	Sowmya Gupta (Veermata Jijabai Technological Institute, Mumbai, India); Chinmay Rajhans (Veermata Jijabai Technological Institute, India)
C&I	7A	1570748037	Sliding Mode Control for Stabilization of a Class of Nonlinear Systems: A Self-Triggered Design with Prescribed Performance Function	Krishanu Nath and Asifa Yesmin (NIT Silchar, India); Manas Kumar Bera (National Institute of Technology Silchar, India)
C&I	7A	1570750182	Control of a Single Axis Maglev System	Sandeep P V (Kerala Technological University, India); V R Jisha (College of Engineering Trivandrum, India)
C&I	7A	1570751045	Synchronization of Nonlinear Systems in Chain Network Configuration with Parametric Uncertainty	Yashasvi Chauhan, Bharat Sharma and Ravi Kumar Ranjan (National Institute of Technology Hamirpur, India)
DCS	1D	1570734707	Performance Enhancement of AlInGaN Quantum Well based UV-LED	Samadrita Das and Trupti Ranjan Lenka (National Institute of Technology Silchar, India); Fazal Talukdar (NIT Silchar, India); Ravi Teja Velpula, Barsha Jain and Hieu Nguyen (New Jersey Institute of Technology Newark, USA)
DCS	1D	1570735138	Theoretical Insights into Gold Metal Contacts to Monolayer and Bilayer MoSe2	Subir Kumar Ghosh and Divya Somvanshi (Jadavpur University, India)
DCS	1D	1570740791	VIGILANT - A Car Accident Prevention System based on Driver Drowsiness	Ishan Vatsaraj, Yash Jungade, Nitee Kishor Dhuri, Rutwij Abhijit Mulye, Shubham Mahesh Dalvi and Kartik Ajit Bodhankar (Vidyalankar Institute of Technology, India); Akhil Ulhas Masurkar (Vidyalankar Institute of Technology & University of Mumbai, India)

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DCS	1D	1570742490	Ultra low power self-adaptive Solar Energy Harvesting System for WSN Nodes	Vinod Kumar Yadav (Dr Rammanohar Lohia Avadh University Faizabad, India); Nishant Singh (IET Dr. RLA University, India); Shambhavi Mudra Shukla (Dr Rammanohar Lohia Awadh University & Institute of Engineering and Technology, India)
DCS	1D	1570742590	High Performance camera electronics for Infrared payloads	Ravi Kumar (SAC ISRO Ahmedabad & SAC ISRO, India); Namita Singh (Space Application Centre, India); Ashok Kumar (Space Application Centre (ISRO), India); Jalshri Desai and Rajiv Kumaran (Space Application Centre, India)
DCS	1D	1570743951	A meta-heuristic algorithm-based optimization δp+ Si-Ge gate-drain under-lap n-TFET	Sagarika Choudhury, Neeraj Kumar Niranjan and Krishana Lal Baishnab (National Institute of Technology Silchar, India); Koushik Guha (National Institute Of Technology Silchar (An Institution of National Importance), India)
DCS	1D	1570747484	Analytical Modeling of a High-Performance Heterojunction TFET with Tunneling Area Modulation	Arpan De, Saptarshi Maiti, Dipanjan Sen, Nilanjan Das, Sharmistha Shee Kanrar and Subir Kumar Sarkar (Jadavpur University, India)
DCS	1D	1570747983	Simulation and Performance Analysis of Hetero Dielectric Underlap Asymmetrical Double-Gate MOSFET Using Gate Stack	Swapna Sarker (National Institute of Technology Warangal, India); Suddapalli Subba Rao and Nistala Bheema Rao (NIT Warangal, India)
DCS	5E	1570744107	AMSDAT: Integrated Analog and Mixed-Signal Design Optimization Framework for SoC Applications	Harsha Maddur Venkataswamy (UVCE, India)
DCS	5E	1570751289	Machine Learning Approaches for Variability Analysis in Integrated Circuits	Aksh Chordia and Jai Narayan Tripathi (Indian Institute of Technology Jodhpur, India)
DCS	5E	1570747945	Impact of Non-Rectangular Cross-Section on Electrical Performances of GAA FETs	Tripty Kumari and Jawar Singh (Indian Institute of Technology Patna, India); P. Tiwari (IIT Patna, India)
DCS	5E	1570746797	Design Perspective and Theoretical Analysis of Performance Parameters on CZTS Solar Cell	Srest Somay (National Institute of Technology Warangal, India); Saurabh Pandey (IIT Patna, India)
DCS	5E	1570748008	A ZnO Humidity Sensor integrated with a-IGZO TFT based Preamplifier	Shishir Choudary Ravipati (IIEST Shibpur, India); Kavindra Kandpal (Indian Institute of Information Technology Allahabad, Prayagraj, India)
DCS	5E	1570751266	Aluminium Plate Surface Defect Detection and Classification based on Piezoelectric Transducers	Hiramoni Khatun (Gauhati University, India)
DCS	5E	1570747577	Performance Improvement of CZTSSe Solar Cell by using Mg-doped ZnO as Window Layer	Rabin Paul and Trupti Ranjan Lenka (National Institute of Technology Silchar, India); Fazal Talukdar (NIT Silchar, India)
DCS	5E	1570751367	Tuning of threshold voltage in Organic thin film transistors using buried silver nanoparticles distributed floating gated contacts	Nadeem Firoz (Indian Institute of Technology Kanpur, India); Kale P. Vitthal (Indian INstitute of Technology Kanpur, India); B. Mazhari (Indian Institute of Technology Kanpur, India)
PE&PE	1B	1570725037	Correlation Analysis in Wind Speed and Solar Insolation temporal series in Indian locations	Jani Das (Muthoot Institute of Technology and Science, Ernakulam, Kerala, India)
PE&PE	1B	1570729248	EMD based Detrending of Non-linear and Non-stationary Power System Signals	Mir Khadim Aalam (National Institute of Technology Karnataka, India); Shubhanga (NITK, Surathkal, India)
PE&PE	1B	1570731425	An Improved Gain Noncoupled Inductor Modified Sepic Converter With Voltage Multiplier Cell	Sindhuja S and Mageshwari S (National Institute of Technology Trichy, India); Sridharan Moorthi (National Institute of Technology, India)
PE&PE	1B	1570732865	PSO Optimized Decentralized Secondary Control for Frequency and Voltage Restoration in Islanded AC Microgrid	Sindhura Gupta and Susovan Mukhopadhyay (Netaji Subhash Engineering College, Kolkata, India); Ambarnath Banerji (Narula Institute of Technology, Kolkata, India & MAKAUT, India); Sujit K. Biswas (Jadavpur University, India); Prasun Sanki (Netaji Subhash Engineering College, Kolkata, India)
PE&PE	1B	1570734321	A Fast GMPPT Algorithm For PV Array Under Non-uniform Shading Conditions	Devireddy Sivacharan Reddy, S Porpandiselvi and Bhavin Salvi (National Institute of Technology Warangal, India)
PE&PE	1B	1570734924	SCADA WebView: A State-of-the-Art Enterprise Transmission SCADA Engine	Sumit Kumar Saurav (Centre For Development Of Advanced Computing, India); Palem Benny Sudhakar, Katta Jagan Mohan, Senthil Kumar R and Bindhumadhava Bapu S (CDAC, India)
PE&PE	1B	1570735567	PI-RLNN Controller for LFC of Hybrid Deregulated Power System Based on SPOA	Milton Kumar Das (Indian Maritime University, Kolkata Campus, India); Parthasarathi Bera (Kalyani Govt. Engineering College, India); Partha Sarkar (University of Kalyani, India); Krishnendu Chakrabarty (Govt. College of Engineering & Ceramic Technology, India)
PE&PE	1B	1570735937	A Novel 15-Level Asymmetric Modified T-Type Inverter with Reduced Device count	Prashant Raj Mishra (Kalinga Institute of Industrial Technology, India); Sagar Jha (Kalinga Institute of Industrial Engineering, India); Tapas Roy (Kiit University, India)
PE&PE	2B	1570743811	Design and analysis of adaptive neuro-fuzzy inference system based MPPT technology	Manasi Pattnaik (Thapar Institute of Engineering And Technology, India); Manoj Badoni (Thapar Institute of Engineering and Technology, India); Yogesh Tatte (VNIT, Nagpur, India)
PE&PE	2B	1570743956	Ferrite PM- Assisted Synchronous Reluctance Motor for EV Application	Subhendu Mishra (KIIT & IIT Bombay, India); Byamakesh Nayak (KIIT University, India); B Fernandes (IITB, India)
PE&PE	2B	1570745915	Optimal Charge Scheduling of EVs Using Aggregator Based Charge Controller with Active Power Support to the Grid	Priyanka Ray (NIT SILCHAR, India)
PE&PE	2B	1570737630	Optimizing Neural network Hyperparameters with Swarm Intelligences for Commercial Buildings Load Classification	Akshay Gupta (Malaviya National Institute of Technology, India); Rahul Singhal (MNIT Jaipur, India); Rajesh Kumar (Malaviya National Institute of Technology, India)
PE&PE	2B	1570739619	Comparative Performance Analysis on Passive and Active Balancing of Lithium-Ion Battery Cells	Rushali R Thakkar (University of Mumbai, India); Yerramreddy Srinivasa Rao (Sardar Patel Institute of Technology, India); Rajendra Sawant (Sardar Patel Institute of Technology, Mumbai, India)
PE&PE	2B	1570747997	Modeling and Control Implementation of Interleaved Coupled and Uncoupled Boost Converter for EV Drive Applications	Guttula Yedukondalu (NIT Rourkela, India); Susovon Samanta (National Institute of Technology, Rourkela, India)
PE&PE	3B	1570740277	Cascaded Diode Clamped Mid Point Multi-Level Converter towards Enhanced Power Rating and Power Quality with Voltage Balancing	Jami Rajesh and Satya Venkata Kishore Pulavarthi (National Institute of Technology Andhra Pradesh, India); Jayaram N (National Institute of Technology, Andhra Pradesh, India)

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PE&PE	3B	1570742818	Effect of DSTS and HVDC on Multi-Area AGC System Considering BSA Optimized 2DOF-TID Controller	Sanjeev Kumar Bhagat and Lalit Saikia (National Institute of Technology Silchar, India); Naladi Ram Babu (NIT SILCHAR, India); Biswanath Dekaraja, Manoja Kumar Behera and Satish Kumar Ramoji (National Institute of Technology Silchar, India)
PE&PE	3B	1570742954	Instrumentation and Data acquisition system of wave powered navigational buoy	Biren Pattanaik (Niot, India); Yvn Rao, Ashwani Vishwanath and Purnima Jalihal (NIOT, India)
PE&PE	3B	1570743063	Cryo Cooler Drive Electronics For Infra-Red Earth Observation payloads	Anuj Srivastava (Space Applications Centre (ISRO), India); Namita Singh (Space Application Centre, India); Ashok Kumar (Space Application Centre (ISRO), India); Jalshri Desai and Rajiv Kumaran (Space Application Centre, India)
PE&PE	3B	1570743327	A Division-less, Low Complexity, Adaptive MPPT Algorithm for Photovoltaic Power Systems	Shubham Jain (Indian Institute of Technology Bombay, India); Pravin Kondekar (PDPM IIITDM Jabalpur, Madhya Pradesh, India)
PE&PE	3B	1570743725	Multi-attribute based prosumers prioritization for energy trading in Smart Grid	Nongmaithem Nandini Devi and Surmila Thokchom (NIT Meghalaya, India)
PE&PE	4B	1570748028	Dust effect on energy profile production from hybrid photovoltaic (H-PV) collector	Rohit Tripathi (J C Bose University of Science and Technology YMCA, Faridabad, India)
PE&PE	4B	1570739220	Fuzzy and MBO optimized Load Frequency Control of hybrid Power system	Zahid Farooq and Asadur Rahman (National Institute of Technology Srinagar, India); Shameem Lone (NIT Srinagar, India)
PE&PE	4B	1570738111	An efficient K-SVD based Algorithm for detection of Oscillatory mode from ambient data for synchrophasor application	Manoranjan Sahoo (NIT Rourkela, Odisha, India); Shekha Rai (NIT Rourkela, India)
PE&PE	4B	1570746803	A Novel Triple Pulse Test Circuit for Complete Characterization of SiC MOSFET	Swastik Acharya (National Institute of Technology Rourkela, India); Nitesh Agrawal and Susovon Samanta (National Institute of Technology, Rourkela, India)
PE&PE	4B	1570747953	Optimizing the Performance of Solar Photovoltaic Panels using Machine Learning	Sathwik Pothana (Visvesvaraya National Institute of Technology, India); Nikhil Deep Gupta (Visvesvaraya National Institute of Technology, Nagpur, India)
PE&PE	5B	1570750703	Stability Criteria of Peak Current Controlled Active Clamp Forward Converter with Input Filter	Maturi Krishnaja (NIT Rourkela, India); Susovon Samanta (National Institute of Technology, Rourkela, India)
PE&PE	5B	1570750912	Optimal Placement of PMUs using Binary Bat Algorithm	Phanendra Babu N v (Chaitanya Bharathi Institute of Technology, Hyderabad, India); Sumanth Mekala (Chaitanya Bharathi Institute of Technology, Hyderabad, INDIA, India)
PE&PE	5B	1570750926	Enhancement of Power Transfer Capability using Dynamic Model of Unified Power Flow Controller	Nageswarareddy N (NIT Tiruchirapalli, India); Sridharan Moorthi (National Institute of Technology, India); Raja Pitchaimuthu (National Institute of Technology, Tiruchirappalli, India); Phanendra Babu N v (Chaitanya Bharathi Institute of Technology, Hyderabad, India); Saptarshi Roy (NIT WARANGAL, India)
PE&PE	5B	1570751089	A Hybrid Islanding Detection Scheme For Grid-tied PV Microgrid	Vishal S Dixit, Manav Dhanesh Jadhwani and Abhishek Pandey (Veermata Jijabai Technological Institute, India); Faruk Kazi (VJTI, Mumbai, India)
PE&PE	5B	1570751287	A New Transmission Line Fault Location Identification using Fault Current DC transients	Adharapurapu Hema Latha (Indian Institute of Technology, Hyderabad, India); Ravikumar Bhimasingu (Indian Institute of Technology Hyderabad, India)
PE&PE	5B	1570739637	Electric Stress Minimization in Outdoor Contaminated Polymeric Insulators Using an Appropriate Field Grading Material	H Shrimathi and Mithun Mondal (Birla Institute of Technology & Science Pilani, Hyderabad Campus, India)
PE&PE	5B	1570748026	Modelling and Analysis of Distribution System Performance with Integration of Electric Vehicle Charging Station in Real-time Environment	Sourav Kumar Sahu (Birla Institute of Technology Mesra, India); Shubham Kumar (Birla Institute of Technology, India); Debomita Ghosh (B. I. T. Mesra, India); Sudipto Poddar (NITTTR Chandigarh, India)
PE&PE	5B	1570737617	Forecasting of Load and Solar PV Power to Assess Demand Response Potential	Jayesh Priolkar (NIT Goa); Aditya Shivanand Shirodkar (Goa College of Engineering, India); Sreeraj E S (National Institute of Technology Goa, India)
RC	1F	1570743555	Traffic Management using Computer Vision and SUMO	Bodicherla Digvijay Sri Sai (International Institute of Information Technology, Naya Raipur, India); Ramisetty Nikhil (International Institute of Information Technology, Naya Raipur (IIITNR), India); Payarda Santosh Babu (International Institute of Information Technology, Naya Raipur (IIITNR) & International Institute of Information Technology, India); Srinivas Naik (IIIT Naya Raipur, India)
RC	1F	1570747966	On Learning Multi-UAV Policy for Multi-ObjectTracking and Formation Control	Prakarsh Kaushik (Ajay Kumar Garg Engineering College, India); Armaan Garg and Shashi Shekhar Jha (Indian Institute of Technology Ropar, India)
RC	1F	1570735397	DSNet-MV: Fast summarization of Surveillance Video's using Deep learning in Compressed Domain using Motion Vectors	Lakshya Lakshya (Samsung R&D Institute India-Bangalore, India); Shivaank Agarwal (Birla Institute of Technology and Science & Samsung Research Institute Bangalore, India); Venkata Suneel Kota (SAMSUNG RESEARCH INDIA BANGALORE, India); Mallikarjuna Rao Voleti (Samsung R&D Institute India - Bangalore, India)
RC	1F	1570745624	A Comparative Study of Deep Learning Methods for Hate Speech and Offensive Language Detection in Textual Data	Yogesh Yadav and Parth Bajaj (Indian Institute of Technology, Guwahati, India); Rohan Kumar Gupta and Rohit Sinha (Indian Institute of Technology Guwahati, India)
RC	1F	1570747262	Learning Safe Cooperative Policies in Autonomous Multi-UAV Navigation	Arshdeep Singh (IIT Ropar, India); Shashi Shekhar Jha (Indian Institute of Technology Ropar, India)
RC	1F	1570747596	Knowledge Aided Track Management: Multi-Target Tracking in the Presence of Electromagnetic Absorbers	Pathipati Srihari, Dr (National Institute of Technology Karnataka, India); Vikas Kumar Dewangan (DRDO, India); Anvith M (National Institute of Technology Karnataka, India); Adithya Jayan (National Institute of Technology, Karnataka, India); Medidi Anurag (National Institute of Technology, Karnataka & Bachelor of Technology, India); Pardhasaradhi Bethi (National Institute of Technology - Karnataka, India)

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RC	1F	1570751000	OROnto: An Ontology for Recognition of Grasping Objects	Abhijit Boruah (Dibrugarh University & Dibrugarh University Institute of Engineering and Technology, India); Tazid Ali (Dibrugarh University & Assam, India); Nayan M. Kakoty (Tezpur University, India); M. b. Malarvili (Universiti Teknologi Malaysia, Malaysia)
RC	1F	1570738990	Human Emotion Recognition using EEG Signal in Music Listening	Manasa Pisipati and Anup Nandy (National Institute of Technology Rourkela, India)
RC	2F	1570734612	Dynamic Analysis of Tracked Mobile Manipulator Used in Agriculture	S Vineet (Indian Institute of Technology Kharagpur, India); Deepak Deshmukh (Indian Institute of Technology, Kharagpur, India); Dilip Pratihar (Indian Institute of Technology Kharagpur, India); Alok Deb (Indian Institute of Technology, Kharagpur, India); Hena Ray and Nabarun Bhattacharyya (Centre for Development of Advanced Computing, India)
RC	2F	1570743820	Hospital Assistant Robotic Vehicle (HARVi)	Yadu Krishnan, Vaisakh Udayan and S Akhil (College of Engineering Adoor, India)
RC	2F	1570743969	A Method for Finding Multiple Large Rectangular Free Spaces in a Map with Convex and Concave Obstacles	Aishik Basu, Bappaditya Das and Chintan Kumar Mandal (Jadavpur University, India)
RC	2F	1570744648	Implementation and Evaluation of SLAM Systems for a Mobile Robot	Chinmay Nehate, Rutwik Shinde, Saket Naik, Manish Aradwad and Anish Bhurke (Veermata Jijabai Technological Institute, India); Faruk Kazi (VJTI, Mumbai, India)
RC	2F	1570735438	Adaptive Beam Search to Enhance On-device Abstractive Summarization	Bhogaraju Swarajya Sai Harichandana (Samsung R&D, India); Sumit Kumar (Samsung Research, India)
RC	2F	1570735609	Computer Vision-based Social Distancing Surveillance with Automated Camera Calibration for Large-scale Deployment	Sreetama Das (RBEI, India); Anirban Nag (Robert Bosch Engineering and Business Solutions, India); Dhruba Adhikary (BITS PILANI & Capgemini Invent, India); Ramswaroop Ramswaroop (RBEI, India); Aravind Babu Ravichandiran (Bosch India, India); Sujit Kumar Ojha (Bosch, India); Guruprasad Mahabaleshwar (Robert Bosch, India)
RC	2F	1570736101	Garbage Detection and Classification using Faster-RCNN with Inception-V2	Asif Iqbal Middya, Debjani Chattopadhyay and Sarbani Roy (Jadavpur University, India)
RC	2F	1570751072	Autopilot Design for Vision Assisted Autonomous Fixed Wing Micro Air Vehicle	Shuvrangshu Jana, Mayur Shewale, Susheel Balasubramaniam, Sidhant Dhall and Seetharama Bhat (Indian Institute of Science, India)
RC	3F	1570747878	A Fusion Architecture Model for Human Activity Recognition	Sarosij Bose (University of Calcutta, Technology Campus, India); Amlan Chakrabarti (University of Calcutta, India)
RC	3F	1570747954	Effective Object Detection and Tracking for Holonomic Robot using Deep Neural Architecture	Atharva Vijaydeep Pawar, Sejal Jitendrasingh Rajput, Hima Kamleshbhai Soni and Nirav Ratilal Joshi (Saffrony Institute of Technology, India)
RC	3F	1570735394	VoiceMoji: A Novel On-Device Pipeline for Seamless Emoji Insertion in Dictation	Sumit Kumar (Samsung Research, India); Bhogaraju Swarajya Sai Harichandana (Samsung R&D, India); Himanshu Arora (Samsung R&D Institute India-Bangalore, India)
RC	3F	1570749888	ARCN: A Real-time Attention-based Network for Crowd Counting from Drone Images	Subhrajit Nag (Indian Institute of Technology, Hyderabad, India & Swinburne University of Technology, Australia); Yash Khandelwal (Birla Institute of Technology, Mesra, India); Sparsh Mittal (IIT Roorkee, India); C Krishna Mohan (IIT Hyderabad, India); A. Kai Qin (Swinburne University of Technology, Australia)
RC	3F	1570750490	Redundancy Analysis using Genetic Algorithm	Helik Kanti Thacker, Atishay Kumar, Ankit Gupta and Keerthi Kiran Jagannathachar (Samsung Semiconductor India Research and Development, India); Deokgu Yoon (Samsung Electronics, Korea (South))
RC	3F	1570750966	Machine Learning in Smart Transportation Systems for Mode Detection	Sayandeep Roy, Yash Pratap Singh and Utsab Biswas (NIT Silchar, India); Devendra Singh Gurjar (National Institute of Technology Silchar, India); Tripti Goel (National Institute of Technology Silchar Assam, India & NIT Silchar, unknown)
RC	3F	1570738307	Face Verification System with Liveness Detection	Divyansh Srivastava and Priyansh Shukla (Indian Institute of Technology, Ropar, India); Ashish Kumar Sahani (Indian Institute of Technology Ropar, India)
S&P	6B	1570744063	Malicious URL Classification Using Deep Neural Network	Mainak Sen (Techno India University, West Bengal, India); Kumar S Ray (Indian Statistical Institute, India); Amlan Chakrabarti (University of Calcutta, India)
S&P	6B	1570739514	Modeling and Defending against Resource Depletion Attacks in 5G Networks	Gokul Nb (Amrita Vishwa Vidyapeetham, India); Sriram Sankaran (Amrita University, India)
S&P	6B	1570739735	Moving Towards Blockchain-Based Solution for Ensuring Secure Storage of Medical Images	Ashwini S D (Ramaiah Institute of Technology, India); Annapurna P Patil and Savita Shetty (Ramaiah Institute of technology, India)
S&P	6B	1570740329	Design and Analysis of Hash Algorithm Using Autonomous Initial Value Proposed Secure Hash Algorithm64	Bhagvant Ram Ambedkar (MJP Roilkhand University Bareilly & Shri Venkateshwara University, Amroha, Uttar Pradesh, India); Pawan Kumar Bharti (Shri Venkateshwara University, Amroha, Uttar Pradesh, India); Akhtar Husain (MJP Roilkhand University Bareilly, India)
S&P	6B	1570747910	A brief overview of security attacks and protocols in MANET	Bidisha Banerjee and Sarmistha Neogy (Jadavpur University, India)
S&P	6B	1570742007	An adaptive Weighted Voting Classifier for Botnet Detection in Internet of Things	Deepa Krishnan (Mukesh Patel School of Technology Management and Engineering & NMIMS University, India); Preeja Babu (MPSTME Mumbai, India)
S&P	6B	1570742606	Proof of Solution: Implementation of Work History as Stake in Blockchain Applications	Kiran M H M, Annapurna P Patil, Harivind Premkumar, Pranav Hegde and Rishi Kumar P S (Ramaiah Institute of Technology, India)
S&P	7B	1570743841	Generative Adversarial Analysis using U-LSB Based Audio Steganography	Vaishnavi Moorthy (SRM Institute of Science and Technology & Kattankulathur, India); Revathi Venkataraman (SRM Institute of Science and Technology, India)
S&P	7B	1570739219	Securing images using robust chaos based masking and scrambling in the fractional Fourier domain	Vinod Patidar (Sir Padampat Singhania University Udaipur, India); Gurpreet Kaur (USICT, GGSIPU, India)
S&P	7B	1570741411	Digital watermarking in fractional integral transform domain with chaos based random and partially informed detection	Gurpreet Kaur (USICT, GGSIPU, India); Vinod Patidar (Sir Padampat Singhania University Udaipur, India)

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S&P	7B	1570749890	Defending against SQL injection attacks in web applications using Machine Learning and Natural Language Processing	Bronjon Gogoi and Tasiruddin Ahmed (National Informatics Centre, India); Arabinda Dutta (Regional Centre of Excellence for Application Security & National Informatics Centre, India)
S&P	7B	1570748276	Tree-Based Group Diffie-Hellman for subgroup communication in M2M networks	Kousik Rajesh and Manoj Das (Indian Institute of Technology, Guwahati, India); Sukumar Nandi (Indian Institute of Technology Guwahati, India)
S&P	7B	1570751342	Graph-Based Channel-Aware Secure-Coding for Cooperative Communication	Kotha Venugopalachary (Shiv Nadar University, India); Vijay Kumar Chakka (Shiv Nadar University Greater Noida, India); Jannie Sanjana (Shiv Nadar University, India)
SPM	2D	1570735884	Multi-object Foreground Extraction in Streaming Video using Low Rank Sparse Decomposition	Yogesh Sanku and Soumyo Bhattacharjee (Indian Institute of Technology, Kharagpur, India); Saumik Bhattacharya (IIT Kharagpur, India)
SPM	2D	1570727722	Refined Zero Band Filtering for Estimation of Instants of Significant Excitation from Emotive Speech	Ashwini R (Amrita Vishwa Vidyapeetham, India); Govind D (Koneru Lakshmaiah Education Foundations, India)
SPM	2D	1570728028	Effectiveness of Wavelet Synchrosqueezed Transform for Improved Epoch Estimation from Telephonic Speech Signals Using Zero Frequency Filtering	Chandni M (Amrita Vishwa Vidyapeetham, India); Govind D (Koneru Lakshmaiah Education Foundations, India)
SPM	2D	1570733416	Single Image And Video Dehazing: A Dark Channel Prior (DCP)-based Approach	Sajitha Adidela, Sakshi Singh and Tina Sahu (Dr SPM International Institute of Information Technology Naya Raipur, India); Amrita Mishra (International Institute of Information Technology Bangalore, India)
SPM	2D	1570734859	Evaluating Speech Production-based Acoustic Features for COVID-19 Classification using Cough Signals	Bhanu Teja Nellore (Jio AICoE, India); Ganji Sreeram (Reliance Jio AICoE, India); Kunal Dhawan (Jio Platforms Ltd., India); Balakrishna Pailla (Jio AICoE, India)
SPM	2D	1570735253	Short Utterances based real time on-Device Spoken Language Identification	Shwetank Choudhary (Samsung R & D Institute Bangalore India, India); Kushagra Jain, Tanmay Bansal, Karthik Cr, Punuru Sri Lakshmi and Shubham Sharma (Samsung R&D Institute Bangalore, India)
SPM	2D	1570735287	Performance Analysis of Transversal Filter Combination for Feedback Suppression in Hearing Aids	Ravi Vanamadi (Indian Institute of Information Technology Design & Manufacturing Kancheepuram, India); Asutosh Kar (Indian Institute of Information Technology, Design and Manufacturing, India)
SPM	2D	1570716203	An Intelligent Pothole Detection and Alerting System using Mobile Sensors and Deep Learning	Shubhra Rao Kuthyar (Dayananda Sagar University, India); Roopashree S (JAIN (Deemed-To-Be-University) & Visvesvaraya Technological University, India); Rasika V, Sahana Manjesh, Ritu Girimaji and Rahul Davis Arjun (Dayananda Sagar University, India); Priyadarshini S (Dayanand Sagar University, India)
SPM	3D	1570736394	An Improved DCT interpolation using Bilateral filter	Jagyanseni Panda (National Institute of Technology, India); Sukadev Meher (National Institute of Technology, Rourkela, India)
SPM	3D	1570739043	Character Segmentation from Handwritten Gujarati isolated words using Deep Learning	Riya P. Javia (Dhirubhai Ambani Institute of Information and Communication Technology, India); Mukesh M Goswami (Dharmsinh Desai University, India); Suman Mitra (DAIICT, India)
SPM	3D	1570739628	Removal of Clutter and Random Noise for GPR Images	Buddepu Santhosh Kumar (National Institute of Technology, Rourkela, India); Ajit Sahoo (NIT Rourkela, India); Subrata Maiti (National Institute of Technology, Rourkela, India)
SPM	3D	1570739792	Speech Intelligibility Improvement based on Noise Reduction and Frequency Compression Technique	Rajani S. Pujar (Basaveshwar Engineering College, Bagalkot, India); Pandurangarao Kulkarni (Basaveshwar Engineering College, India)
SPM	3D	1570739801	Reference Information Potential based Closed-form Expressions for Direct Estimation of L^2 based Independence Measure	Bhaveshkumar Choithram Dharmani (Lovely Professional University, India)
SPM	3D	1570741249	Edge-preserving denoising using gradient-based estimation and iterative noise-aided processing	Vineet Kumar (IIT Guwahati, India); Rajlaxmi Chouhan (Indian Institute of Technology Jodhpur, India)
SPM	3D	1570741959	Estimation of Depression Anxieties and Stress through Clustering of Sequences of Visual and Thermal Face Images	Satyajit Nayak (Indian Institute of Technology, Kharagpur, India & Subir Chowdhury School of Quality and Reliability, India); Bingi Nagesh and Aurobinda Routray (Indian Institute of Technology, Kharagpur, India); Monalisa Sarma (Indian Institute of Technology Kharagpur, India); Satraupa Uttarkabat (Indian Institute of Technology, Kharagpur, India)
SPM	4D	1570743240	GPU-Accelerated Adaptive Dictionary Learning and Sparse Representations for Multispectral Image Super-resolution	Trishna Barman and Bhabesh Deka (Tezpur University, India); A Prasad (National Remote Sensing Centre, India)
SPM	4D	1570743478	Multimodal Fusion for Segment Classification in Folk Music	Aravind Krishnan, Amal Vincent and Geevar Jos (College of Engineering, Trivandrum, India); Rajeev Rajan (College of Engineering, Thiruvananthapuram, India)
SPM	4D	1570743632	Multiview Hand Gesture Recognition using Deep Learning	Mallika Garg and Pyari Mohan Pradhan (IIT Roorkee, India); Debashis Ghosh (Indian Institute of Technology (IIT) Roorkee, India)
SPM	4D	1570743769	Generating Multiview Hand Gestures with Conditional Adversarial Network	Mallika Garg (IIT Roorkee, India); Debashis Ghosh (Indian Institute of Technology (IIT) Roorkee, India); Pyari Mohan Pradhan (IIT Roorkee, India)
SPM	4D	1570744392	Dependency-Based Classification With Multimodal Data Using Regular Vine Copulas	Jahnavi Raman, Apeksha Gaonkar, Yogya Chukkapalli, Sahana Srikanth and Sanjeev Gurugopinath (PES University, India)
SPM	4D	1570746606	IITG-INDIGO Submissions for Interspeech-2021 Multilingual and Code-Switching ASR Challenges for Low Resource Indian Languages	Susmita Bhattacharjee and Joyshree Chakraborty (IIT Guwahati, India); Sanskar Agarwal and Ayul Jain (Alumnus of IIT Guwahati, India); Priyankoo Sarmah (IIT Guwahati, India); Rohit Sinha (Indian Institute of Technology Guwahati, India)
SPM	4D	1570746949	Measurement and Evaluation of Human Vital Sign using 77GHz AWR1642 FMCW Radar Sensor	Pathipati Srihari, Dr (National Institute of Technology Karnataka, India); Vandana G s (Sri Shasha Prayathi Technologies Pvt. Ltd., India); Raghavendra B s (National Institute of Technology Karnataka, India)
SPM	4D	1570747553	VesselXnet - A lightweight and efficient encoder-decoder based model for Retinal Vessel Segmentation	Narasimhadhan AV (NITK, India); Surya prakash Reddy Putluru (National Institute of Technology Karnataka, India); Venkat Rohit Merugu (National Institute of Technology Karnataka, Surathkal Mangalore, India)

Track	Session	Paper ID	Paper Title	Authors
SPM	7D	1570747899	A Robust Zero-attracting Proportionate Logarithmic Hyperbolic Cosine Adaptive Filter against Impulsive Noise for Sparse Systems	Joel Fernandez (Dhirubhai Ambani Institute of Information and Communication Technology, India); Rajib Lochan Das (IIT Kharagpur, India)
SPM	7D	1570748082	Design of Unimodular Long Length Polyphase Code for CW Radar for Doppler Tolerance	Paramananda Jena (DRDO, India); A Vengadarajan (LRDE, India); Pathipati Srihari, Dr (National Institute of Technology Karnataka, India)
SPM	7D	1570749491	A more generalizable DNN based Automatic Segmentation of Brain Tumors from Multimodal low-resolution 2D MRI	Divya Bhaskaracharya (Dept. of ECE NITK, Surathkal Mangalore, India); Rajesh Parameshwaran Nair (Dept. of Neurosurgery KMC Manipal, MAHE Udupi, India); Prakashini Koteshwara (Dept. of Radio Diagnosis KMC Manipal, MAHE Udupi, India); Girish Menon R (Dept. of Neurosurgery KMC Manipal, MAHE Udupi, India); Paul Litvak and Pitchaiah Mandava (Baylor College of Medicine Houston, USA); Deepu Vijayasenan and Sumam David S. (Dept. of ECE NITK, Surathkal Mangalore, India)
SPM	7D	1570751225	Evaluating Different Graph Learning Techniques for Mental Task EEG Signal Classification	Priyanka Mathur (Shiv Nadar University, India); Vijay Kumar Chakka (Shiv Nadar University Greater Noida, India)
SPM	7D	1570751311	Detection of Speech-based Physical Load Using Transfer Learning Approach	Sibasis Sahoo and Samarendra Dandapat (Indian Institute of Technology Guwahati, India)
V&N	5D	1570730337	LC-VCO with Simple Enhancement to Suppress Flicker Noise Upconversion	Debdut Biswas (Indian Institute of Technology, Kharagpur, India)
V&N	5D	1570734618	VLSI Architecture Design of Motion Estimation Block with Hexagon-Diamond Search Pattern for Real-Time Video Processing	Atin Mukherjee (National Institute of Technology Rourkela, India)
V&N	5D	1570736055	A 6-bit Low Power Digitally Controlled Oscillator	Rahul Harish Bhandari, Sujata Kotabagi and Ashwini Nayak (KLE Technological University, India)
V&N	5D	1570751180	Design of Concurrent Error Detection Techniques for FFT implemented on FPGA platform	Venkata Mohan Krishna Kaza (Indian Institute of Technology Banaras Hindu University, India); Kishor Prabhakar Sarawadekar (Indian Institute of Technology, India)
V&N	5D	1570739026	Design Of High Density Memory Cell Library For Low Voltage Operation In 65nm LSTP Technology	Akshat Saxena (Indraprastha Institute of Information Technology, Delhi, India); Swapnil Bansal (Indraprastha Institute Of Information Technology, New Delhi, India); Divisha Sharma (Indraprastha Institute of Information Technology Delhi (IIIT Delhi) & NA, India); Payal Kumari and Sandeep Kumar Singh (Indraprastha Institute of Information Technology Delhi, India); Priya Kapil (Indraprastha Institute of Information Technology, Delhi, India); Belal Iqbal (IIIT delhi, India); Anuj Grover (IIIT Delhi, India)
V&N	5D	1570746702	Label-Free Biosensing using Dielectric Modulated GaAs1-xSbx FinFET under Dry/Wet Environment	Ankit Dixit, Dip Prakash Samajdar and Navjeet Bagga (PDPM IIITDM Jabalpur, India)
V&N	5D	1570733242	A Novel Temperature Compensated On-chip Current Starved Ring Oscillator	Rahul Harish Bhandari, Ashwini Nayak, Sanjay Netagal, Sujata Kotabagi and Shrinidhi Kamalakar (KLE Technological University, India)
V&N	6D	1570747658	8-bit 2-GS/s 20.5 mW Flash Assisted Time Interleaving SAR ADC for Direct Sampling RF Receivers	Amitesh Kumar Tripathi (Defence Electronics Research Laboratory (DLRL), DRDO, India & Indian Institute Of Technology (IIT Bombay), Mumbai, India); Sumit Khalapure and Rajesh Zele (Indian Institute of Technology Bombay (IIT Bombay), India)
V&N	6D	1570747837	A Novel High RSNM RHBD 16T SRAM Cell at 180nm	Betha Surya Prakash, Ashutosh Yadav, Anand Bulusu and Sudeb Dasgupta (Indian Institute of Technology Roorkee, India)
V&N	6D	1570747882	Design Considerations for Low Spur Charge Pump in High Performance Phase Locked Loops	Aniruddh Choudhary and Aniruddha Khade (Indian Institute of Technology Bombay, India); Rajesh Zele (Indian Institute of Technology Bombay (IIT Bombay), India)
V&N	6D	1570750740	FGMTL based Low Voltage Current Mode Squarer/Divider Circuit	Aakriti Chhabra (Netaji Subhas University of Technology, India); Bhawna Aggarwal (Netaji Subhas Institute of Technology, India); Raj Senani (Netaji Subhas University of Technology, New Delhi, India & National Institute of Technology, Patna, unknown)
V&N	6D	1570751148	Adaptively Biased Low dropout regulator with Low input referred noise amplifier for high speed serial Links	Suresh Nagula (National Institute of Technology Warangal, India); Patri Sreeharirao and Ekta Goel (National Institute of Technology, Warangal, India)
V&N	6D	1570738877	Estimating Power Supply Induced Jitter using S-Parameter based modeling of Transmission Media	Diksha Singh (IIT Jodhpur, India); Vinod Verma (Indian Institute of Technology, Jodhpur, India); Jai Narayan Tripathi (Indian Institute of Technology Jodhpur, India)
V&N	6D	1570751265	A Novel Decoder Design for Logic Computation in SRAM: CiM-SRAM	Kanika Monga (Birla Institure of Technology and Science, Pilani, India); Sahil Aggarwal (Birla Institute of Technology and Science, Pilani, India); Nitin Chaturvedi (BITS Pilani, India); S Gurunarayanan (Birla Institute of Technology and Science, Pilani, India)
V&N	6D	1570746468	VLSI Implementation of A Robust Threshold-Based Earthquake Early Warning System	Sudipta Bose, Arijit De and Indrajit Chakrabarti (Indian Institute of Technology Kharagpur, India)
Ph. D Forum	4F		ResNet Based VT-VF Classification and Interpretation Using Guided Backpropagation	Deepankar Nankani, IIT Guwahati
	4F		Cost effective video streaming over vehicular network	Debanjan Roy Chowdhury, IIT Guwahati
	4F		Prediction of Air Quality using Bi-directional Stacked GRU approach	Deepti Shakya, IIT Patna
	4F		A comparison between ensemble learning and support vector machine applied as regressor on scour depth prediction	Sanjit Kumar, IIT Patna
	4F		Predicting peer review decision using paper review interaction	Prabhat kumar Bharti, IIT Patna
	4F		Theoretical Investigation of Silicon and GaAs1-xSbx FinFETs for Biosensor Applications	Ankit Dixit, PDP-IIITDM Jabalpur