

Technical Program				
IEEE CONECCT, 16th March, 2018				
Venue: MSR Resort & Spa, (Earlier MovenPick), Bangalore, India				
Time	Conference Hall			
	Gokula		Davos I	Davos II
	Gokula I	Gokula II		
8:00 – 9:00	Registration			
09:00 - 9:15	Conference Inauguration			
9:15 - 10:15	Keynote Talk Anurag Kumar CPS over IoT: Technology, Research, Prospects Session Chair: Sudeendra Kaushik, IEEE Bangalore Section			
10:15 - 10:45	Networking Break			
10:45 - 11:30	Plenary Talk K. V. S. Hari Emerging MIMO Wireless Communication Systems Session Chair: Debabrata Das, IITB			
11:45 - 12:30	Plenary Talk Sriram Raghavan AI meets IoT: Real world challenges and solutions Session Chair: Debabrata Das, IITB			
12:30 - 2:00	Lunch			
2:00 - 3:30	Session 1 (Computer Science and Big Data)	Session 1 (Advances in Electron Devices)	Session 1 (Cyber - Physical Systems/ Internet of Things)	Session 1 (Networking Protocols and Communication)
3:30 - 4:00	Networking Break			
4:00 - 6:00	Session 2 (Computer Science and Big Data)	Session 2 (Advances in Electron Devices)	Session 2 (Cyber - Physical Systems/ Internet of Things)	Session 2 (Networking Protocols and Communication)
6:30 - 8:00	Poster Session			
8:00 - 9:30	Conference Dinner			
Technical Program				
IEEE CONECCT, 17th March, 2018				
Venue: MSR Resort & Spa, (Earlier MovenPick), Bangalore, India				
Time	Conference Hall			
	Gokula		Davos I	Davos II
	Gokula I	Gokula II		
09:00 - 9:45	Plenary Talk V. Ramgopal Rao Bottom-up meets top down: An Integrated Approach for Future High Performance CMOS & Sensor Technologies Session Chair: K. V. S. Hari, IISc			
10:00 - 10:45	Plenary Talk Aloknath De How is Artificial Intelligence changing the Dynamics of IoT? Session Chair: K. V. S. Hari, IISc			
10:45 - 11:00	Networking Break			
11:00 - 12:30	Session 3 (Computer Science and Big Data)	Session 3 (Advances in Electron Devices)	Session 3 (Cyber - Physical Systems/ Internet of Things)	Session 3 (Computer Science and Big Data)
12:30 - 2:00	Lunch			
2:00 - 3:30	Session 4 (Computer Science and Big Data)	Session 4 (Advances in Electron Devices)	Session 4 (Cyber - Physical Systems/ Internet of Things)	Session 4 (Networking Protocols and Communication)
3:30 - 4:00	Networking Break			
4:00 - 6:00	Session 5 (Computer Science and Big Data)	Session 5 (Advances in Electron Devices)	Session 5 (Cyber - Physical Systems/ Internet of Things)	Session 5 (Networking Protocols and Communication)
6:15 - 6:30	Closing Ceremony/Awards			

Gokula I				
Day 1: March 16th				
Session 1	Presenter	Affiliation	Paper Title	Presentation
Session Chair: Madhav Rao				
2.00 - 2.20	Soliha Rahman	IBM, India	Cloud Based Information Retrieval Device for Augmentation of Real Time Images	Regular Paper
2.20 - 2.40	Khyamling A Parane Parane	National Institute of Technology	FPGA based NoC Simulation Acceleration Framework Supporting Adaptive Routing	Regular Paper
2.40 - 3.00	Md Maksudur Rahman	University of Dhaka, Bangladesh	Traffic Pattern Analysis from GPS Data: A Case Study of Dhaka City	Regular Paper
3.00 - 3.20	Pramod Yelmewad	NITK, Surathkal	Near Optimal Solution for Traveling Salesman Problem using GPU	Regular Paper
3.20 - 3.30	Lasitha Mekkayil	M. S. Ramaiah University of Applied Sciences, Bangalore	Person Re-identification using Collaborative Feature Learning from Multiple Color Space	Poster Paper
Session 2				
Session Chair: Neelam Sinha				
4.00 - 4.40	Arpita Patra	IISc, Bangalore	Multi-party Computation	Invited Paper
4.40 - 5.00	Ashwin Kalyana Kumar	SASTRA University, Thanjavur	A Hybrid Steganography Method Using 3LSB Substitution on Sub-Images Based On a Key-Matrix	Regular Paper
5.00 - 5.20	Asha C S	NITK, Surathkal	Vehicle Counting for Traffic Management System using YOLO and Correlation Filter	Regular Paper
5.20 - 5.30	Harsh Garg	PES University, Bangalore	AR-ELM based Framework for Facial Feature Extraction and Classification	Poster Paper
Day 2: March 17th				
Session 3				
Session Chair: Muralidhara V N				
11.00 - 11.40	Manish Gupta	IIT, Bangalore	Applying Data Science to Real-World Problems	Invited Paper
11.40 - 12.00	Mutum Bidiyaran Devi	Hindustan Institute of Technology and Science, Chennai	Pan-sharpening Using Data Driven Model Based on Linear Regression	Regular Paper
12.00 - 12.20	Sachin Govind	NIT Warangal	Novel Recommender Systems Using Personalized Sentiment Mining	Regular Paper
12.20 - 12.30	Lakshya Khandelwal	Samsung R&D	Hindi-English Common Word Embedding using Bilingual Mapping	Poster Paper
Session 4				
Session Chair: Muralidhara V N				
2.00 - 2.40	Badrinath RamaMurthy	Ericsson Research	IoT Solutions – modeling the environment and the devices	Invited Paper
2.40 - 3.00	Ipsita Biswas Mahapatra	Indian Institute of Science, Bangalore	DFG partitioning algorithms for coarse grained reconfigurable array assisted RTL simulation accelerators	Regular Paper
3.00 - 3.20	Harish Kumar	Samsung R&D	Hardware Acceleration of Optically Labeled Human Genome Sequencing using a Novel Algorithm	Regular Paper
3.20 - 3.30	Promod Yenigalla	Samsung R&D	Combined Word and Character based CNN Model for Text Classification	Poster Paper
Session 5				
Session Chair: Pramod Yenigalla				
4.00-4.40	M Girish Chandra	TCS Innovation Labs	A Scattered Look at Some Data Analysis Techniques for Energy Management and Smart Factory	Invited Paper
4.40 - 5.00	Abhilash Jain	Indian Institute of Science, Bangalore	Visual Speech Recognition for Isolated Digits using Discrete Cosine Transform and Local Binary Pattern Features	Regular Paper
5.00 - 5.20	Bheemappa Halavar	NITK, Surathkal	Accurate Performance Analysis of 3D Mesh Network on Chip Architectures	Regular Paper
5.20 - 5.40	Praveen L S	M S Ramaiah University of Applied Sciences, Bangalore	Design and Development of Real Time Bionic Hand Control Using EMG Signal	Regular Paper

Gokula II				
Day 1: March 16th				
Session 1	Presenter	Affiliation	Paper Title	Presentation
Session Chair: Saravanan Sethuraman				
2:00 - 2:20	Srikanth Kanaga	IIT Madras	AlIn/GaN MIS-HEMTs with High Pressure Oxidized Aluminium as Gate Dielectric	Regular Paper
2:20 - 2:40	Dev Narayan Yadav	NIT Meghalaya, Shillong	Towards an In-Memory Reconfiguration of Arithmetic Logical Unit using Memristor Crossbar Array	Regular Paper
2.40 - 3.00	Chetan Kumar Dabhi	IIT Kanpur	A Unified Flicker Noise Model for FDSOI MOSFETs Including Back-bias Effect	Regular Paper
3.00 - 3.20	Priyank Rastogi	IIT Kanpur	Atomistic Study of Acoustic Phonon Limited Mobility in Extremely Scaled Si and Ge Films	Regular Paper
3.20 - 3.30	Dinesh Kumar Dash	Jadavpur University, Kolkata	Compact Analytical Model of Dielectric Engineered Double Gate Silicon-On-Nothing TFET with the incorporation of Binary Metal Alloy Gate	Poster Paper
3.30 - 3.40			Analytical Drain Current Model for Fully Depleted Surrounding Gate TFET	Poster Paper
Session 2				
Session Chair: Mayank Shrivastava				
4.00 - 4.40	Saravanan Sethuraman	IBM Research	Emerging Memory and Nest Architecture Overview	Invited Paper
4.40 - 5.20	Parthasarathy Ramaswamy	Intel	Hardware design challenges for next generation computing	Invited Paper
5.20 - 5.40	Alok Naugarhiya	NIT Raipur	Design and performance projection of workfunction engineered variable vertical doped superjunction vertical single diffused MOS	Regular Paper
Day 2: March 17th				
Session 3				
Session Chair: Harald Gossner				
11.00 - 11.40	Yogesh Singh Chauhan	IIT Kanpur	Negative Capacitance Transistors – Physics, Modeling and Processor performance at VDD = 0.4V	Invited Paper
11.40 - 12.00	Ball Mukund ManiTripathi	IIT Kanpur	Vertical Channel GaN Field Effect Transistor Without Junction For High Power Application	Regular Paper
12.00 - 12.20	Priyank Rastogi	IIT Kanpur	Diameter Scaling in III-V Gate-All-Around Transistor for Different Cross-Sections	Regular Paper
12.20 - 12.30	Durgaprasad Bhat	MS Ramaiah University of Applied Sciences, Bangalore	Design and Implementation of an 3-logical input Optical Look Up Table	Poster Paper
Session 4				
Session Chair: Saurabh Lodha				
2.00 - 2.40	Harald Gossner	Intel, Germany	A different view on robustness of electronic devices in the IoT era	Invited Paper
2.40 - 3.00	Priyanka Saha	Jadavpur University, Kolkata	3D modeling based performance analysis of Gate Engineered Trigate SON TFET with SiO ₂ /HfO ₂ stacked gate oxide	Regular Paper
3.00 - 3.20	Shalini Tomar	Bundelkhand University, Jhansi	Strain Dependent Carrier Mobility in 8 – Pmmn Borophene: ab-initio study	Regular Paper
3.20 - 3.30	Ajinkya Puranik	VNIT, Nagpur	Sensing Circuit Design	Poster Paper
Session 5				
Session Chair: Saravanan Sethuraman				
4.00-4.40	Saurabh Lodha	IIT Bombay	Engineering Ge and 2D MoS ₂ transistors for advanced CMOS	Invited Paper
4.40 - 5.20	H. S. Jatana	Semi-Conductor Laboratory, Chandigarh	Challenges in design of SoC in low geometry nodes	Invited Paper
5.20 - 5.40	Anshu Sarje		Effect of Radiation & Hot Electron Injection on Flicker Noise in 0.5 um CMOS transistors	Regular Paper
5.40 - 5.50	Suprava Dey	Siksha 'o' Anusandhan, Bhubaneswar	Performance Evaluation of Nanoscale SOI FinFETs	Poster Paper
5.50 - 6.00	Dharmendra Singh Rajpurohit	IIT Jodhpur	Soldering on PCB Assembly using Microwave Heating	Poster Paper

Davos I				
Day 1: March 16th				
Session 1	Presenter	Affiliation	Paper Title	Presentation
Session Chair: Arun Babu				
2.00 - 2.40	Amith Singhee	IBM Research	Foglamps: What you need when the cloud meets the edge for AI	Invited Paper
2.40 - 3.00	Abin Mathew Abraham	Wipro	Augmenting IoT-based systems with intelligence	Regular Paper
3.00 - 3.20	Manasij Sur Roy	IIT, Bangalore	Resource engagement and response pattern inference model to improve service handling delegation system in IoT environment	Regular Paper
3.20 - 3.30	Shashank S	Sri Sairam Engineering College, Chennai	Integrated Patient Monitoring System	Poster Paper
Session 2				
Session Chair: Bharadwaj Amrutur				
4.00 - 4.40	Laxmidhar Behera	IIT Kanpur	Intelligent control of robotic systems	Invited Paper
4.40 - 5.20	Balamuralidhar	TCS Innovation Labs	Software defined robotics	Invited Paper
5.20 - 5.30	Ananya Ravikumar	PES University, Bangalore	Use of elliptic curve cryptography for securing wireless sensor networks and associated security, cost and energy trade offs	Poster Paper
Day 2: March 17th				
Session 3				
Session Chair: Abhay Sharma				
11.00 - 11.40	Sudip Misra	IIT Kharagpur	Internet of Things: Enabling cross-domain convergence and innovation	Invited Paper
11.40 - 12.00	Anurag Barthwal	Shiv Nadar University	An Internet of Things system for sensing, analysis & forecasting urban air quality	Regular Paper
12.00 - 12.10	Supriya Kamthania	Engineer	Smart and adaptive edge security solution for IoT	Poster Paper
12.10 - 12.20	Shiwu MP	BITS Pilani	Design and implementation of an IoT based monitoring system for precision polyhouse agriculture	Poster Paper
Session 4				
Session Chair: Atreyee Kundu				
2.00 - 2.40	Venkatarao Ryali	GE Research	Wind farm optimization and controls: An industrial cyber-physical systems perspective	Invited Paper
2.40 - 3.00	AMIT GURUNG	NIT Meghalaya, Shillong	Planar projection of polytopes using Hough transforms	Regular Paper
3.00 - 3.20	Nikumani Choudhury	Indian Institute of Information Technology, Guwahati	Duty-cycling in synchronized IEEE 802.15.4 cluster-tree networks	Regular Paper
3.20 - 3.30	Anunachalam Rajasekar	Hindustan Institute of Technology and Science, Chennai	Decoupling control of computer server system	Poster Paper
Session 5				
Session Chair: Arun Babu				
4.00 - 4.40	Chandra Murthy	IISc, Bangalore	Scaling up Bayesian Sparse Signal Recovery Algorithms for Big Data Applications	Invited Paper
4.40 - 5.00	Vineet Sahula	MNIT, Jaipur	Novel placement bias for realizing highly reliable physical unclonable functions on FPGA	Regular Paper
5.00 - 5.10			Occupancy Estimation Using Sensor Data Analytics	Poster Paper
5.10 - 5.20			Data Stream Clustering for Botnet Detection	Poster Paper
5.20 - 5.30	Shiwu MP	BITS Pilani	Smart Real-time Water Monitoring & Visualization System for Industries	Poster Paper

Davos II				
Day 1: March 16th				
Session 1	Presenter	Affiliation	Paper Title	Presentation
Session Chair: Debabrata Das				
2.00 - 2.40	Venkatesh Ramachandran	Aruba Networks	Evolution of the Network Perimeter, its security implications especially with IoT	Invited Paper
2.40 - 3.20	Gopinath K N	Mojo Networks	Wi-Fi User Experience in the Wild: Key Insights from a Machine Learning and Big Data Based Analysis	Invited Paper
3.20 - 3.40	Chandra Prakash	Space Applications Centre ISRO, India	Narrow Band Jamming Detection & Filtering in Satellite Transponder	Regular Paper
Session 2				
Session Chair: Saptarshi Chaudhury				
4.00 - 4.40	V Sridhar	IIT, Bangalore	Challenges in Spectrum allocation for 5G in India	Invited Paper
4.40 - 5.00	Kavin Kumar Thangadorai	Samsung R&D	A Novel Process to Avoid Redundant Encryption and Decryption in Wi-Fi Mesh Network	Regular Paper
5.00 - 5.20	Soumya Bhat	PES University	Electronically Tunable Dual Band Microwave Filter	Regular Paper
5.20 - 5.30	Harish Madupu	Homi Bhabha National Institute, Kalpakkam	A Comparative Study on Secure Key Management Protocols for WSN	Poster Paper
Day 2: March 17th				
Session 3				
Session Chair: Debabrata Das				
11.00 - 11.20	Seema P D	M S Ramaiah University of Applied Sciences, Bangalore	A Comparative Audio Stimulus - fMRI study of Major Depressive Disorder(MDD) and Never Depressed (ND) Subjects	Regular Paper
11.20 - 11.40	Sankara Prasad R	BITS, Pilani	Design and Development of Flexible and Low-Cost Coincidence Counting Unit	Regular Paper
11.40 - 12.00	Chaya N Aishwarya	PES University, Bangalore	Multilayer vehicle classification integrated with single frame optimized object detection framework using CNN based deep learning architecture	Regular Paper
12.00 - 12.20	Santhi Natarajan	IISc Bangalore	ReneGENE-DP: Accelerated Parallel Dynamic Programming for Genome Informatics	Regular Paper
12.20 - 12.30	Lakshmisridevi Subbaraman	Hindustan institute of Technology and Science, Chennai	Authorship Attribution using a Regression Model of Text	Poster Paper
Session 4				
Session Chair: Saptarshi Chaudhury				
2.00 - 2.40	Sridhar Bhaskaran	Huawei Technologies	Innovations in 3GPP 5G core network	Invited Paper
2.40 - 3.00	Sridharan Natarajan	Samsung R&D	Demand Aware Edge Caching Architecture for evolved Multimedia Broadcast Multicast Service to Reduce Latency and Bandwidth Savings	Regular Paper
3.00 - 3.20	Varun Kumar	National Institute of Technology, Rourkela	Large Antenna Performance with Imperfect CSI in Cooperative Networks	Regular Paper
3.20 - 3.30	Gunuprasad SP	Jain University, Bangalore	FPGA based NOC-Router Architecture using Mesh topology	Poster Paper
Session 5				
Session Chair: Debabrata Das				
4.00 - 4.40	Neelesh B Mehta	IISc, Bangalore	Base Station-Side Estimation Algorithms in Cellular Systems with Reduced Feedback	Invited Paper
4.40 - 5.00	Vignesh B	Visvesvaraya College of Engineering, Bangalore	Optimal Token Bucket Refilling for Tor network	Regular Paper
5.00 - 5.20	Sayan Rudra Pal	BITS, Pilani	Optimizing the Order of Modulation for Minimized Distortion in Green Communication Networks	Regular Paper
5.20 - 5.30	Ramesh	Robert Bosch Center for Cyberphysical Systems, Bangalore	Interoperable middleware for smartcities - Streetlighting on LoRaWAN as a case study	Poster Paper