Day 1: THURSDAY, MARCH 7, 2019	
08:30 a.m. Onwards	**Registration**
09:15 a.m.	**Inauguration**
10:00-11:00a.m.	**Keynote Talk 1: Dr. Gurtej Sandhu**
11:00-11:15 a.m.	**Tea Break**
11:15-12:15p.m.	**Technical Session 1**

	Session-C1.1 : Wireless Communication Systems-I Venue: LT-4	
	Session Chair: Dr. M. A. Ansari	
	Session Rapporteur: Dr Megha Agarwal, Ms Jyoti Vyas	
C1.1.1570521004	**Compact Conformal Slot Antenna for Hyperthermia Applications**	
	Soni Singh; Dharmendra Singh; S. P. Singh	
C1.1.1570520880	**Design of Miniaturized Diamond Shaped Substrate Integrated Waveguide CSRR Band Pass Filter for X Band Applications**	
	Nitin Muchhal; Shweta Srivastava	
C1.1.1570520313	**Design and Analysis of HgCdTe Infrared Photodetector**	
	Iti Sharma; Tanmay Srivastava; Rahul Kaushik; Amit Goyal	
C1.1.1570517689	**Modelling of Graphene Based Tunable Ring Resonator for THz Biosensor Applications**	
	Neetu Joshi; Nagendra Prasad Pathak	
	Session-S1.1: Signal Processing for System Analysis-I Venue: LT5	
	Session Chair: Prof. Rajiv Saxena	
	Session Rapporteur: Dr Bhartendu Chaturvedi, Mr B. Suresh	
S1.1.1570506021	**Performance of Multiplierless FIR Filter based on CSD and Binary: A Comparative Study**	
	Nidhi Sajwan; Anil Kumar; Ila Sharma; Lokendra Balyan	
S1.1.1570519816	**A Systematic Approach of Hardware Design for Acoustic Reflectometry System**	
	Kapil Dev Tyagi; R. Bahl; Arun Kumar	
S1.1.1570520348	**DoG Based Local Ternary Pattern for Image Retrieval**	
	Megha Agarwal; Amit Singhal	
S1.1.1570518651	**Performance analysis of imputation of missing values with noise filtration on medical data**	
	Sukanya Gupta; Manoj Gupta; Archana Purwar	

12:15-1:15p.m.	**Keynote Talk 2 : Prof. George K. Karagiannidis**
1:15 - 2:15 p.m.	**LUNCH**
2:15-3:15 p.m.	**Keynote Talk 3 : Dr. Panagiotis D. Diamantoulakis**
3:15 - 3:30 p.m.	**Tea Break**

3:30-4:30 p.m.	Technical Session 2	
	Session-V1.1 : VLSI Circuits and Systems Venue: LT-4	
	Session Chair: Dr. Gurtej Sandhu	
	Session Rapporteur: Mr Abhishek Kashyap, Dr. Kirmender Singh	
	V1.1.1570517892	**Possible Active Elements Transposition and Applications**
		Atul Kumar; Bhartendu Chaturvedi; Jitendra Mohan
	V1.1.1570506297	**Fuel Economy Analysis for Vehicular Efficiency**
		Rahul Agarwal; Deepak Gupta; Adwitiya Sinha; Megha Rathi
	V1.1.1570511696	**Grounded Series R-L impedance Simulator using CDDITA**
		Kapil Bhardwaj; Mayank Srivastava; Kuldeep Panwar; Dinesh Prasad; Ajay Roy
	V1.1.1570517964	**Comparative Design and Analysis of FinFET and CMOS SRAM Cell**
		Yash Sharma; Anushka Singh; Archana Pandey
	Session-S1.2: Signal Processing for System Analysis-II Venue: LT-5	
	Session Chair: Dr. Panagiotis D. Diamantoulakis	
	Session Rapporteur: Ms. Priyanka Kwatra, Dr. Kaushal Nigam	
	S1.2.1570517491	**Study of GPS C/No ratio for retrieval of Surface Soil Moisture**
		Jitender Pandey; Rishi Prakash; Ananya Ray;Vivek Chamoli; Anurag Vidyarthi
	S1.2.1570520327	**Mining Twitter Data for Depression Detection**
		Priyanka Arora; Parul Arora
	S1.2.1570520306	**A Real Time Sign Language Interpretation of forearm based on Data Acquisition Method**
		Sakshi Goel; Mohit Kumar; Yogesh Kumar
	S1.2.1570520050	**A Novel Security Power and Resource Aware Virtual Machine Allocation in Cloud Computing**
		Neeraj Kumar Sharma; G. Ram Mohana Reddy ; Priyanka Sharma
4:30 - 5:30 p.m.	**Keynote Talk 4 : Prof. Rajiv Saxena**	
	Day 2: FRIDAY, MARCH 8, 2019	
09:00-10:00 a.m.	**Keynote Talk 5 : Prof. Mohamed-Slim Alouini**	
10:00-11:00 a.m.	**Technical Session 3**	
	Session-C2.2 Wireless Communication Systems-II Venue: LT- 4	
	Session Chair: Prof. Mohamed-Slim Alouini	
	Session Rapporteur: Mr. Varun Goel, Dr. Kaushal Nigam	
	C2.2.1570509076	**Deployment of Cognitive RF for Performance Enhancement of FSO systems: A FSO/Cognitive RF Hybrid Approach**
		Soyinka Nath; Shreesh Kumar Shrivastava; Sujata Sengar and Shree Prakash Singh

	C2.2.1570519690	**Security Analysis for Mixed RF-FSO system in the presence of a RF - Eavesdropper**
		Dipti R. Pattanayak; Vivek K. Dwivedi; Vikram Karwal
	C2.2.1570518069	**Restoration of the Network for Next Generation (5G) Optical Communication Network**
		Dinesh Kumar; Ashutosh Sharma; Rajiv Kumar; Neeru Sharma
	Session-V2.2: VLSI and Embedded Systems Venue: LT5	
	Session Chair: Prof. R. K. Dwivedi	
	Session Rapporteur: Dr. Bhartendu Chaturvedi, Ms. Jyoti Vyas	
	V2.2.1570519308	**Internet of Things (IoT) Based Smart Shopping Centre Using RFID**
		Ajay Kumar; Shlok Srivastava; Utkarsh Gupta
	V2.2.1570517744	**Characterization of Supercapacitor for the Development of Energy Storage Units**
		Dharmendra Jain; Jitendra Kanungo; Santhosh Kumar Tripathi
	V2.2.1570520318	**Electrical and Optical characteristics of MoOx/ZnO Based thin film Photodetector**
		Hemant Kumar; Yogesh Kumar; Gopal Rawat; Chandan Kumar; Bhola N. Pal; Jit Satyabrata
	V2.2.1570519733	**Design and Analysis of Broadband Reflector for Passive Radiative Cooling**
		Kanika Ratra; Mansi Singh; Amit Kumar Goyal; Rahul Kaushik
11:00-11:15 a.m.	**Tea Break**	
11:15-12:15 p.m.	**Keynote Talk 6 : Prof. S. N. Singh**	
12:15-1:15 p.m.	**Technical Session 4**	
	Session- C2.3: Channel Modeling for Communications Venue: LT-4	
	Session Chair : Prof. George K. Karagiannidis	
	Session Rapporteur: Dr. Megha Agarwal, Mr. B. Suresh	
	C2.3.1570518063	**Deterministic Millimeter-Wave Channel Modeling Based on Ray-Tracing in Urban Scenario**
		Bajrang Bansal; Vimal Mishra; Sanjay Soni; Nitin Jain
	C2.3.1570519473	**Performance Analysis of Hexagonal-QAM Signals in Nakagami-m Fading Distribution**
		Dharmendra Sadhwani; Anand Agrawal
	C2.3.1570520228	**Characterization of Wall Parameters using Insertion Transfer Function Method in 'Through the Wall' Imaging System**
		Vishal Narain Saxena; Rahul Kaushik
	C2.3.1570520304	**Channel Characterization of IEEE 802.15.3c mm-Wave Systems**
		Anand Agrawal; Dharmendra Sadhwani

		Session-S2.3: Machine Leaning in Signal Processing Venue: LT-5
		Session Chair: Prof. Alka Tripathi
		Session Rapporteur: Dr. Abhishek Kashyap, Dr. Kirmender Singh
	S2.3.1570520419	**Comparative Study of Multilabel Classifiers on Software Engineering Q&A Community for Tag Recommendation**
		Ayushi Verma; Neetu Sardana
	S2.3.1570516788	**Weather Forecasting Using Machine Learning Algorithm**
		Nitin Singh; Saurabh Chaturvedi; Shamim Akhter
	S2.3.1570506884	**Feature Extraction: A Survey of the Types, Techniques and Applications**
		Ayodeji Olalekan Salau; Shruti Jain
	S2.3.1570519937	**DPSN: A Novel approach for Disease Prediction based on Social Networks**
		Rishabh Gupta; Swapnil Gupta; Rahul Gupta; Neetu Sardana
	S2.3.1570520538	**Speech Enhancement for Punjabi Language Using Deep Neural Network**
		Jaspreet Singh; Kamaldeep Kaur
01:15-02:15 p.m.		**LUNCH**
02:15-03:15 p.m.		**Keynote Talk 7: Dr. Ashok Chandra**
3:15 - 3:30 p.m.		**Tea Break**
3:30-4:30 p.m.		**Technical Session 5**
		Session-C2.4 : Internet Of Things in Communication Venue: LT-4
		Session Chair: Dr. Ashok Chandra
		Session Rapporteur: Ms. Priyanka Kwatra , Mr Varun Goel
	C2.4.1570511727	**Future Battlefield Air Space Management: An Internet of Things (IoT) Based Framework**
		Kuldeep Singh; Gaurav Tripathi, G. A. Chullai, Jitender Kumar; Prasoon Kumar
	C2.4.1570517608	**Monitoring Harmful Sound Density and Light Intensity state in industrial workplace**
		Jobair Al Rafi, Lutful Kader Misbah, Md. Abu Bakar Sayem, Syeda Tanzina Hossain, Sohan Ul Alam; Mohammad Jahed Hasan
	C2.4.1570518693	**Developing a Secure Soldier Monitoring System using Internet of Things and Blockchain**
		Jitesh Pabla, Vaibhav Sharma; Rajalakshmi Krishnamurthi
		Session-C2.5: Communication Systems Venue: LT-5
		Session Chair: Dr. Deepali Sharma
		Session Rapporteur: Dr. Megha Agarwal, Ms Jyoti Vyas
	C2.5.1570520550	**Dual Mode Self Controlled Irrigation System for Home**
		Tanya Makkar; Harshvardhan Singh Rathore; Yogesh; Sanjay Kumar Dubey
	C2.5.1570518131	**Anomalous Ozone Measurements Detection Using Unsupervised Machine Learning Methods**
		Anjali Chauhan; P. Raghu Vamsi

	C2.5.1570520367	**PAPR Analysis of IFFT and DWT Based OFDM-IM System**
		Samriti Kalia; Alok Joshi; Anand Agarwal
	C2.5.1570517250	**Design and implementation of photonic crystal vertical cavity surface emitting laser**
		Garima Singh; Gurjit Kaur
04:30-05:30 p.m.		**Technical Session 6**
		Session-C2.6: Machine Learning in Communication Venue: LT-4
		Session Chair: Dr. Gujit Kaur
		Session Rapporteur: Dr. Bhartendu Chaturvedi, Mr. B. Suresh
	C2.6.1570506348	**Crowdsourcing of Hate Speech for Detecting Abusive Behavior on Social Media**
		Jasleen Dhillon; Varn Gupta; Rishabh Govil; Bhavya Varshney; Adwitiya Sinha
	C2.6.1570520358	**Permission based Android Malicious Application Detection using Machine Learning**
		Aditya Kapoor; Himanshu Kushwaha; Ekta Gandotra
	C2.6.1570517846	**Optimization of DDS for Peer To Peer Communication over a Constrained Network**
		Pawan Sah; Bharathi Ramudu; Mahima Verma
		Session-S2.4: Image Processing Venue: LT-5
		Session Chair: Prof. D. K. Rai
		Session Rapporteur: Dr. Abhishek Kashyap, Dr. Kirmender Singh
	S2.4.1570497130	**A Fuzzy Min-Max Neural Network based Classification of Histopathology Images**
		Santhos Kumar A; Anil Kumar; Varun Bajaj; G.K. Singh; B. Kuldeep
	S2.4.1570509760	**Discrete Wavelet Transform based Image Fusion on Multitemporal Satellite Images**
		Anju Asokan; J. Anitha
	S2.4.1570509797	**Localisation of spliced region using pixel correlation in digital images**
		Ashwani Thakur; Akshita Aggarwal; Savita Walia; Krishan Saluja
	S2.4.1570515853	**Morphology based Character Recognition of Overlapped and Touched Objects**
		Nafis Uddin Khan; Pallavi Sharma; Kanchan Rani

Day 3: SATURDAY, 9 MARCH 2019

09:00-10:00 a.m.	**Keynote Talk 8: Prof. Dipankar Dasgupta**
10:00-11:00 a.m.	**Technical Session 7**
	Session-V3.3 : VLSI Circuits and Systems Venue: LT-4
	Session Chair: Dr. Neeraj Shukla
	Session Rapporteur: Ms. Priyanka Kwatra, Dr. Kirmender Singh

V3.3.1570518469	**Tunnel Field Effect Transistor For Ultra Low Power Applications: A Review**	
	Km. Sucheta Singh; Satyendra Kumar; Kaushal Nigam; Vinay Anand Tikkiwal	
V3.3.1570519312	**Low-Temperature Reliability of Sub-20nm 4H-SiC Trench MOSFET with Black Phosphorus Gate Material**	
	Ajay Kumar; Madan Mohan Tripathi; Rishu Chaujar	
V3.3.1570520771	**Impact of BOX Thickness Scaling on Channel Modulated Electric Field of DC-EFM FD-SOI MOSFET**	
	Vimal Mishra; Bajrang Bansal; R. K. Chauhan	
V3.3.1570518314	**Fabrication of CZTS Thin Films based Solar Cells using Vacuum Deposition Techniques: A Status Review**	
	Priyanka Kwatra; Deeksha Chandola; Tanmay Mathur; Vinay Anand Tikkiwal	

Session-S3.5 :Signal Processing for System Analysis-III Venue: LT-5

Session Chair: Dr. S. K. Singh

Session Rapporteur: Dr. Kaushal Nigam, Mr Varun Goel

S3.5.1570506887	**Audio Compression Using a Modified Discrete Cosine Transform with temporal Auditory Masking**	
	Ayodeji Olalekan Salau; Kehinde Faleye; Shruti Jain; Ifetayo Oluwafemi	
S3.5.1570520438	**Tag Based Answer Recommedation System**	
	Anjali Chauhan; Ayushi Verma; Deepanshi; Mahendra Gurve	
S3.5.1570520520	**TagStack: Automated System for Predicting Tags in StackOverflow**	
	Sonam Sonam; Ayushi Verma; Sangeeta Lal; Neetu Sardana	
S3.5.1570518050	**Speaker Identification Based Proxy Attendance Detection System**	
	Naman Gupta; Shikha Jain	

11:00 -11:15 a.m.	**Tea Break**
11:15 - 12:15 p.m.	**Keynote Talk 9: Dr. P S M Tripathi**
12:15 - 1:15 p. m.	**Technical Session 8**

Session-C3.7: Young Professionals Venue: LT- 4

Session Chair: Dr. P S M Tripathi

Session Rapporteur: Dr. Kaushal Nigam, Ms Jyoti Vyas

C3.7.1570517482	**An Epsilon Negative Line Based Dual-Band Metamaterial Inspired Antenna for Low-Profile Applications**	
	Raghvenda Kumar Singh; Ashish Gupta	
C3.7.1570520552	**Simulation of MIMO-FSO System with Gamma-Gamma Fading under Different Atmospheric Turbulence Conditions**	
	Naresh Kumar ; Vineet Khandelwal	

	C3.7.1570513536	A Review on Frequency Selective Surfaces and its Applications
		Kanishka Katoch; Naveen Jaglan; Samir Dev Gupta
1:15- 1:30 p.m.	**Valedictory Session**	
1:30 - 2:30 p.m.	**LUNCH**	

POSTER SESSION PLAN

Day 1: THURSDAY, MARCH 7, 2019		
11:15-12:15 p.m.		**Poster Session 1**
	CP1.1.1570513557	**Speaker's voice characteristics and similarity measurement using Euclidean distances**
		Mahesh K. Singh, Narendra Singh, A. K. Singh
	CP1.1.1570518049	**SIW based two layer slot ring antenna for X-band RADAR Applications**
		Abhay Kumar, Shweta Srivastava
	CP1.1.1570519290	**Mood Based Music Player**
		Anuja Arora, Aastha Kaul, Vatsala Mittal
	CP1.1.1570520373	**Adaptive Traffic Light Controller for Vehicular Ad-Hoc Networks**
		Anuradha Pughat, Amrit Pritam, Dikshant Sharma, Saurabh Gupta
3:30-4:30 p.m.		**Poster Session 2**
	SP1.2.1570515887	**Despeckle and Segmentation of Carotid Artery for Measurement of Intima-media Thickness**
		Ranu Gupta, Rahul Pachauri, Ashutosh K. Singh
	SP1.2.1570520372	**Real Time Safety Alert System for Car**
		Himanshu Arora, Samyak Jain, Sanket Anand, Dharmveer Rajpoot, Neha Yadav
	CP1.2.1570517845	**Bitcoin Price Forecasting using LSTM and 10-Fold Cross validation**
		Sakshi Tandon, Shreya Tripathi, Pragya Saraswat, Chetna Dabas
Day 2: FRIDAY, MARCH 8, 2019		
12:15-1:15 p.m.		**Poster Session 3**
	VP2.3.1570514199	**A Study of adaptive CMOS circuits extracting feature of Neuroplasticity in Human Brain**
		Jayant Singh, Garima Kapur
	VP2.3.1570520325	**Helmet Detection Using ML & IoT**
		Dikshant Manocha, Ankita Purkayastha, Yatin Chachra, Namit Rastogi, Varun Goel
	VP2.3.1570520350	**A novel architecture of high performing Reconfigurable computer based on hack platform**
		Kirmender Singh, Umang Garg
	VP2.3.1570520371	**Design and Performance Analysis of 6T SRAM on 130nm Technology**
		Kanishka Sharma, Manya Mehta, Shivaji Tyagi

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