





SCHOOL OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING 5th IEEE International Conference on Devices, Circuits and Systems (ICDCS'20)

PROGRAMME SCHEDULE

DAY1:5 th MARCH (THURSDAY) 2020					
08:30 A.M - 09:30 A.M	Registration at Conference Venue				
09:45 A.M - 10:30 A.M	INAUGURAT	ION – Elohim A	Auditorium		
10:30 A.M - 10:45 A.M		Tea Break – Eloh	nim Auditorium		
	KEYNOTE TALK-1:	: AlGaN/GaN HEMT De	vice Technology for Mic	rowave Applications	
10:45 A.M –	Dr.D. S. Raw	al			
11:45 A.M	Associate Director, So	lid State Physics Labora	ntory, Delhi.		
	Venue: Elohim Audite	orium			
	KEYNOTE TALK-2	GaN on Silicon Manufa	cturing Excellency in C	MOS foundry	
11:45A.M –	Dr.Manish K	umar			
12:45P.M	Professor, Head –Technology Development Division, Semi-Conductor Laboratory,				
	Department of Space,	·			
	Venue: Elohim Auditorium				
12:45 P.M – 02:00 P.M	Lunch Break				
	KEYNOTE TALK-3: Transistor 70, IC 60, and next?				
02:00 P.M-	Dr. Wen-Kuan Yeh,				
02:45 P.M	Professor, Electrical Engineering Department,				
	National University of Kaohsiung, Taiwan.				
	Venue : ECE Seminar Hall (Ground Floor)				
		Paper Pre	esentation		
02:45 P.M –	SESSION -1	SESSION -2	SESSION -3	SESSION - 4	
04:30 P.M	Venue:ECE	Venue:ECE	Venue: EEE	Venue:E& I	
	Seminar Hall	Seminar Hall	Seminar Hall	Seminar Hall	
	(Ground Floor)	(First Floor)			
03:15 P.M – 03:30 P.M	Tea Break - Near Respective Venues				
04:45 P.M	End of Day One				



(Declared as Deemed to be University under Sec.3 of the UGC Act, 1956)

A CHRISTIAN MINORITY RESIDENTIAL INSTITUTION



AICTE Approved & NAAC Accredited

SCHOOL OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING 5th IEEE International Conference on Devices, Circuits and Systems (ICDCS'20)

	DAY 2:6 th MARCH (FRIDAY) 2020				
	KEYNOTE TALK-4	·		KEYNOTE TALK-5:	
09:45A.M –	Dr.SubhasC	handh	Mr. J.Mu	Mr. J.Murali Shankar	
10:30A.M	Scientist, Solid State I	Physics Lab-DRDO r Hall (Ground Floor		Altran technologies, Venue :ECE Seminar Hall (First Floor)	
10:30 A.M	venue .ECE Semma			, ,	
10:45 A.M		Tea Break: Nea	r Respective Venue	es 	
		Paper 1	Presentation		
	SESSION – 5	SESSION – 6	SESSION - 7	SESSION - 8	
10:45A.M- 12:45 P.M	Venue:ECE	Venue:ECE	Venue: EEE	Venue:E& I	
12.43 F.WI	Seminar Hall	Seminar Hall	Seminar Hall	Seminar Hall	
	(Ground Floor)	(First Floor)			
12:45 P.M - 02:00 P.M		Lun	ch Break		
	KEYNOTE TALK-6:				
02.00 P.M	Dr.Sachin Kumar				
02.45 P.M	University of Delhi, Delhi				
	Venue: EEE Seminar Hall (Ground Floor)				
	Paper Presentation				
02:00 P.M –		<u>ION - 09</u>		SESSION - 10	
03:40 P.M		ie: ECE		Venue: ECE	
		nar Hall		Seminar Hall	
03:15 P.M –	(Ground Floor) (First Floor)			(FIISt Floor)	
03:15 P.M – 03:30 P.M	Tea Break - Near Respective Venues				
03.45 P.M-	VALEDICTORY				
04:20 P.M	Venue: ECE Seminar Hall (First Floor)				
04:20 P.M		End of Day T	wo and ICDCS'20		



(Declared as Deemed to be University under Sec.3 of the UGC Act, 1956)

A CHRISTIAN MINORITY RESIDENTIAL INSTITUTION



AICTE Approved & NAAC Accredited

SCHOOL OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING 5th IEEE International Conference on Devices, Circuits and Systems (ICDCS'20)

Session: 1 **Time**: 02.30 p.m –04.30 p.m

Date: 05/03/2020 **Venue**: ECE Seminar Hall (Ground Floor)

S.NO	Paper ID	Paper Title
1	02	A Cognitive Based Channel Assortment Using Ant-Colony Optimzed Stable
1	02	Path Selection In An IoTN
2	11	Machine Vision and Machine learning techniques for Intelligent Agrobots: A
2	11	review
3	12	Mapping of Prosopis Juliflora by a Fusion assisted Pattern Based
3	13	Classification
4	22	Skin Cancer Detection Using Gray Level Co-occurrence Matrix Feature
4		Processing
5	25	Feasibility Study of Energy Extraction from Wind Pressure of Outdoor Fan
		of Refrigerator Using Small Scale Wind Turbine: Bangladesh Perspective
6	52	Analysis of OSNR and Data Rate Selection Using ML Techniques for
0		Optical Networks
7	53	Performance Study on Nonlinearity Distortion Mitigation in Modulated
7		Optical Interconnects based on Machine Learning
o	61	Analysis of Activity Of Muscles Acting on Ankle Joint in Sitting And
8	61	Standing From Chairs Of Different Heights







AICTE Approved & NAAC Accredited

SCHOOL OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING 5th IEEE International Conference on Devices, Circuits and Systems (ICDCS'20)

Session: 2 **Time**: 02.30p.m –04.30p.m

Date: 05/03/2020 **Venue**: ECE Seminar Hall (First Floor)

S.NO	Paper ID	Paper Title
1	1.5	A 624µW Variable Gain Amplifier with 45dB peak Gain using Current
1	15	Controlled Degeneration
2	12	IoT Based Prepaid Energy Meter
3	03	MOS only voltage reference with improved line regulation for LDO voltage
3	03	regulator applications
4	16	Quasi-Ballistic Transitions in AlGaN/SiC Heterojunction Bipolar
4	10	Transistors
5	17	Design and analysis of LIM hybrid MTJ/CMOS logic gates
6	18	Design and Implementation of 32-bit Functional Unit for RISC architecture
		applications
7	32	Modeling the Impact of a Non-Ohmic Contact on the Delay of
,		Complementary OTFT Inverters
0	36	AC Gain analysis of Multi-stage Common Source Amplifier Using GAA-
8		CNTFET
9	71	Device-Level Performance Comparison of some Pocket Engineered III-V/Si
		Hetero-Junction Vertical Tunnel Field Effect Transistor



(Declared as Deemed to be University under Sec.3 of the UGC Act, 1956)

A CHRISTIAN MINORITY RESIDENTIAL INSTITUTION



AICTE Approved & NAAC Accredited

SCHOOL OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING 5th IEEE International Conference on Devices, Circuits and Systems (ICDCS'20)

 Session: 3
 Time
 : 02.30p.m -04.30p.m

 Date
 : 05/03/2020
 Venue : EEE Seminar Hall

S.NO	Paper ID	Paper Title
1	26	Isolation Improvement in Closely Coupled MIMO Antennas
2	31	IoT and Cloud hinged Smart Irrigation System for Urban and Rural
2		Farmers employing MQTT Protocol
3	24	Implementation Of The Anti-Pilferage And Anti Leakage System For
3	34	Fuel Tankers
4	40	Applications of Internet of Things (IoT) - An Overview
5	44	An Early Alert System for Sleep Apnea Disorder Using IoT
6	50	Design and Analysis Of A Small Implantable Antenna For Blood Glucose
0	30	Monitoring
7	54	Peak-to-Average Power Ratio reduction in OTFS modulation using
/	34	companding technique
8	74	Improving the prediction accuracy of Parkinson's Disease based on
		pattern techniques
9	76	Diagnosis of Parkinson's Disease using Fast Fourier Transform







AICTE Approved & NAAC Accredited

SCHOOL OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING 5th IEEE International Conference on Devices, Circuits and Systems (ICDCS'20)

Session: 4 **Time**: 02.30 p.m –04.30 p.m **Date**: 05/03/2020 **Venue**: E& I Seminar Hall

S.NO	Paper ID	Paper Title
1	47	Design and Simulation of Multiple Quantum well based InGaN/GaN Light
		Emitting Diode for High power applications
2	48	Comparative Analysis Of Control Design For Uncertain MIMO Systems
3	49	Implementation of Elliptic Curve Cryptography over a Server-Client
		network
4	51	Fuel Cell Based Sapf System With Dual Mode Operation
5	55	Implementation of VARMA Model for Ionospheric TEC Forecast over an
		Indian GNSS Station
6	56	Influence of Temperature on p-GaN HEMT for High Power Application
7	72	A Compact Wearable 2.45 GHz Antenna for WBAN Applications
8	75	Comparative Analysis of JunctionlessFinFET and Inverted Mode FinFET as
		Phosphine (PH3) Gas Sensor
9	104	Investigation of AlGaN/GaN HEMT Breakdown analysis with Source field
		plate length for High power applications







SCHOOL OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING 5th IEEE International Conference on Devices, Circuits and Systems (ICDCS'20)

Session: 5 **Time**: 10:45 A.M – 12:45 P.M

Date: 06/03/2020 **Venue**: ECE Seminar Hall (Ground Floor)

S.NO	Paper ID	Paper Title
1	24	Design and Development of (1.2-2.7)GHz HEMT basedn broadband power
		amplifier
2	41	An Algorithmic Approach for Vital Parameters Measurement and
		Monitoring in Public Healthcare Environment
3	63	Real-time Scene Change Detection with Object Detection for Automated
		Stock Verification
4	79	Performance analysis of ScAlN/GaN High Electron Mobility Transistor
		(HEMT) for biosensing application
5	83	Self-Operating Paint Bot
6	90	Recent Research Trends in Solar Photovoltaic Systems
7	92	Design and Analysis of 8-bit Stable SRAM for Ultra Low power
		Applications
8	115	Self-Heating Analysis of GaN-HEMT for Various Temperature and
		Substrate Thickness
9	130	DESIGN AND IMPLEMENTATION OF DNA BASED
		CRYPTOGRAPHIC ALGORITHM
10	133	Preparation and Analysis of Nano materials for Smart textile in Continuous
		Monitoring of Physiological Parameters







AICTE Approved & NAAC Accredited

SCHOOL OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING 5th IEEE International Conference on Devices, Circuits and Systems (ICDCS'20)

Date: 06/03/2020 **Venue**: ECE Seminar Hall (First Floor)

S.NO	Paper ID	Paper Title
1	64	Comparative Performance Analysis of DTC fed Three-Phase and Five-
		Phase Induction Motor
2	67	Memristor Based Cryptographic Information Processing for Secured
		Communication Systems
3	68	Performance Assessment of Polarity Tunable-Ferroelectric-Field Effect
		Transistor at High Temperature —Part I
4	69	Performance Assessment of Polarity Tunable–Ferroelectric–Field Effect
		Transistor at High Temperature —Part II
5	94	A Novel Multilevel Hybrid Segmentation and Refinement Method for
		Automatic Heterogeneous True NSCLC Nodules Extraction
6	99	Study paper in design of Automatic Speed Controlling System
7	101	IOT Based Patient Monitoring System Using Nodemcu
8	141	Heterojunction Tunnel Field Effect Transistors - A Detailed Review
9	143	Silicon-on-Insulator based MOSFET for Biosensing Applications



(Declared as Deemed to be University under Sec.3 of the UGC Act, 1956)

A CHRISTIAN MINORITY RESIDENTIAL INSTITUTION



AICTE Approved & NAAC Accredited

SCHOOL OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING 5th IEEE International Conference on Devices, Circuits and Systems (ICDCS'20)

Session: 7 **Time**: 10:45 A.M – 12:45 P.M

Date: 06/03/2020 **Venue**: EEE Seminar Hall (Ground Floor)

S.NO	Paper ID	Paper Title
1	113	Design and Control Strategies of Quasi – Z Source Inverter For
		Photovoltaic Power Generation Systems
2	116	Image Compression Using HAAR Discrete Wavelet Transform
3	117	Improved Reliability by Controlled Local Electric Field (CLEF) in an
		HfO2 based RRAM Device
4	118	Water Quality Monitoring System Based on IOT
5	119	Analysis of GAA SNTFT with Different Dielectric Materials
6	124	Design and Simulation of 22nm FinFET Structure Using TCAD



(Declared as Deemed to be University under Sec.3 of the UGC Act, 1956)

A CHRISTIAN MINORITY RESIDENTIAL INSTITUTION



AICTE Approved & NAAC Accredited

SCHOOL OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING 5th IEEE International Conference on Devices, Circuits and Systems (ICDCS'20)

Session:8 **Time**: 10:45 A.M – 12:45 P.M

Date :06/03/2020 **Venue** : EIE Seminar Hall (First Floor)

S.NO	Paper ID	Paper Title
1	125	Effect of AlGaN Back Barrier in AlGaN/GaN high electron mobility
		transistor on GaN substrate
2	129	An Improved Reversible Data Hiding on Encrypted Images by Selective
		Pixel Flipping Technique
3	131	Medical Image Fusion using Transform Techniques
4	135	A detailed review on Double Gate and Triple Gate Tunnel Field Effect
		Transistors
5	136	Low Power Design of 4-bit Simultaneous Counter using Digital Switching
		Circuits for Low Range Counting Applications







AICTE Approved & NAAC Accredited

SCHOOL OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING 5th IEEE International Conference on Devices, Circuits and Systems (ICDCS'20)

Session: 9 **Time**: 02.00p.m –3.00 p.m

Date: 06/03/2020 **Venue**: ECE Seminar Hall (Ground Floor)

S.NO	Paper ID	Paper Title
1	80	Equivalent Channel Temperature in GaN HEMT with Field Flate
2	139	Impact on Voltage Stability With Integration of Multiple STATCOM at
		Different Loading Conditions
3	105	Fault Detection and Diagnosis of Multi-Phase Induction Motor Drives
		Using MFRF Technique
4	109	An Optimization Technique for General Neural Network Hardware
		Architecture
5	111	Man of the League Algorithm Based Space Vector Modulated Inverter in
		Photovoltaic System
6	14	Virtual Reality based System for Training and Monitoring Fire Safety
		Awareness for Children with Autism Spectrum Disorder

Session: 10 **Time**: 02.00p.m –3.00 p.m

Date: 06/03/2020 **Venue**: ECE Seminar Hall (First Floor)

S.NO	Paper ID	Paper Title
1	39	Performance Analysis of Radio Frequency (RF) Low Noise Amplifier
		(LNA) with various Transistor Configurations
2	144	A Review of Literature on Braille Tab and the Underlying Technology
3	30	Monitoring & Controlling of Substation Using IOT in Distribution Power
		Grid.
4	42	Internet of Medical Things (IoMT) - An Overview