

# ICEEICT 2021 Programs

## Day-1: 18<sup>th</sup> November 2021 (Thursday)

Time	Program	Venue & Mode
0900-1100	<b>Inaugural Ceremony</b>	
	0900-0925: 0925-0930: 0930-1035: 1035-1055:	ICEEICT highlights Chief guest arrival Opening speech Souvenir handover
1100-1130	<b>Tea</b>	General Mustafiz Multipurpose Hall 10 <sup>th</sup> Floor, Tower-1 (In-person)
1130-1230	<b>Keynote Session 1</b> <b>Anind K. Dey</b> University of Washington, USA	Central Tea Room 2 <sup>nd</sup> Floor, Tower-1
1230-1400	<b>Lunch &amp; End of Hybrid Session</b>	
1400-1500	<b>Keynote Session 2</b> <b>Kashem M. Muttaqi</b> University of Wollongong, Australia	<b>Keynote Session 3</b> <b>Syoji Kobashi</b> University of Hyogo Japan
1500-1515	<b>Break</b>	
1515-1700	Technical Sessions 1A, 1B, 1C, 1D, 1E and 1F	Virtual
1700-1830	<b>Break</b>	
1830-1930	<b>Keynote Session 4</b> <b>Henning Schulzrinne</b> Columbia University, NY, USA	Virtual

## Day-2: 19<sup>th</sup> November 2021 (Friday)

Time	Program	Venue & Mode
0900-1100	<b>Industrial Session 1</b>	General Mustafiz Multipurpose Hall 10 <sup>th</sup> Floor, Tower-1 (Hybrid)
1100-1115	<b>Tea &amp; End of Hybrid Session</b>	
1115-1300	Technical Sessions 2A, 2B, 2C, 2D, 2E and 2F	Virtual
1300-1400	<b>Break</b>	
1400-1500	<b>Keynote Session 5</b> <b>Marco Liserre</b> University of Kiel, Germany	Virtual

Time	Program	Venue & Mode
1500-1515	<b>Break</b>	
1515-1615	<b>Keynote Session 6</b> <b>Ahmet Murat Tekalp</b> Koç University, Turkey	Virtual
1615-1630	<b>Break</b>	
1630-1730	<b>Keynote Session 7</b> <b>Frede Blaabjerg</b> Aalborg University, Denmark	Virtual
1730-1745	<b>Break</b>	
1745-1930	<b>Industrial Session 2</b>	Virtual

### Day-3: 20<sup>th</sup> November 2021 (Saturday)

Time	Program	Venue & Mode	
0900-1130	Special Sessions 3A, 3B, 3C and 3D	Technical Session 3E	Virtual
1130-1145	<b>Break</b>		
1145-1245	<b>Keynote Session 8</b> <b>Ranjan Gangopadhyay</b> LNM Institute of Information Technology, India	<b>Academia Session 1</b> <b>Anirudh Agarwal</b> LNM Institute of Information Technology, India	Virtual
1145-1315	<b>Tutorial Session</b>		Virtual
1315-1430	<b>Break</b>		
1500-1600	<b>Closing and Award Giving Ceremony</b>		Virtual
1600-1900	<b>Break</b>		
1900-2230	<b>Gala Dinner</b>		Central Tea Room 2 <sup>nd</sup> Floor, Tower-1

### Conference Kit Collection

Date	Time	Place
18 <sup>th</sup> November	0800-1200	1 <sup>st</sup> Floor Tower-1
19 <sup>th</sup> November	0900-1200	
20 <sup>th</sup> November	0900-1200	

# Technical Program

**Day-1: 18<sup>th</sup> November 2021 (Thursday)**

## Keynote Session 1

**Day-1: 18<sup>th</sup> November 2021 (Thursday)**

**Time: 1130-1230 (Hybrid)**

**Venue:** General Mustafiz Multipurpose Hall, (10<sup>th</sup> Floor), Tower-1

**Zoom ID:** 996 1769 2252 (<https://zoom.us/j/99617692252>)

<b>Session Chair:</b> Syed Akhter Hossain, CSE, ULAB	
<b>Session Co-chair:</b> Major Md Mokhlesur Rahman, CSE, MIST	
<b>Keynote Speaker</b>	<b>Keynote Topic</b>
Anind K. Dey University of Washington, USA	Using Everyday Routines for Understanding Health Behaviors

## Keynote Session 2

**Day-1: 18<sup>th</sup> November 2021 (Thursday)**

**Time: 1400-1500 (Virtual)**

**Zoom ID:** 971 6293 6821 (<https://zoom.us/j/97162936821>)

<b>Session Chair:</b> Shahriar Khan, EEE, IUB	
<b>Session Co-chair:</b> Captain M S A Al Farook Shiblee (BN), EECE, MIST	
<b>Keynote Speaker</b>	<b>Keynote Topic</b>
Kashem M. Muttaqi University of Wollongong, Australia	Energy Technologies for Future Grids

## Keynote Session 3

**Day-1: 18<sup>th</sup> November 2021 (Thursday)**

**Time: 1400-1500 (Virtual)**

**Zoom ID:** 958 6017 5511 (<https://zoom.us/j/95860175511>)

<b>Session Chair:</b> Kaushik Dev, CSE, CUET	
<b>Session Co-chair:</b> Major Maruf Hasan, BME, MIST	
<b>Keynote Speaker</b>	<b>Keynote Topic</b>
Syoji Kobashi University of Hyogo, Japan	Medical Image Analysis with Artificial Intelligence

## Technical Session 1A

Day-1: 18<sup>th</sup> November 2021 (Thursday)

Time: 1515-1700 (Virtual)

Session Title: Artificial Intelligence-1

Zoom ID: 989 6006 0294 (<https://zoom.us/j/98960060294>)

<b>Session Chair:</b> A.K.M Ashikur Rahman, CSE, BUET		
<b>Session Co-chair:</b> Lieutenant Colonel Muhammad Nazrul Islam, CSE, MIST		
Serial No	Paper ID	Title of the paper
1	42	Diagnosis of Left Ventricular Hypertrophy from ECG Signals Based on CCS Methodology using SVM
2	46	Developing a Semantic Search Method for Retrieving Food Related Verses and Concepts from Holy Quran Using Ontology
3	59	Recognition of Basic Handwritten Math Symbols Using Convolutional Neural Network with Data Augmentation
4	78	Non-invasive Deception Detection in Videos Using Machine Learning Techniques
5	102	A Convolutional Neural Network for End-to-End Structural Prediction and Lane Detection for Autonomous Vehicle
6	246	Smart Meter Data Compression and Load Profile Classification Using UMAP and Random Forest

## Technical Session 1B

Day-1: 18<sup>th</sup> November 2021 (Thursday)

Time: 1515-1700 (Virtual)

Session Title: Biomedical Engineering-1

Zoom ID: 978 2043 9906(<https://zoom.us/j/97820439906>)

<b>Session Chair:</b> Mohiuddin Ahmed, EEE, KUET		
<b>Session Co-chair:</b> Md. Enamul Hoque, BME, MIST		
Serial No	Paper ID	Title of the paper
1	40	Application of Hybrid Classifier for Multi-class Classification of MRI Brain Tumor Images
2	52	Classification and Performance Analysis of Cancer Microarrays Using Relevant Genes
3	111	AllerHybrid: A Hybrid System to Predict the Allergen Using K-mer and Physicochemical Properties
4	148	Non-linear Behaviour Investigation of Accumulation Mode Silicon Nanowires for Biosensing Application
5	164	Medical Specialty Classification from A Bangla Dataset: A Token Level Approach Using Several Machine and Deep Learning Algorithms
6	256	Design and Analysis of a DGS Based UWB Monopole Antenna for Brain Tumor Detection

## Technical Session 1C

Day-1: 18<sup>th</sup> November 2021 (Thursday)

Time: 1515-1700 (Virtual)

Session Title: Communication Technology-1

Zoom ID: 919 4971 4416 (<https://zoom.us/j/91949714416>)

<b>Session Chair:</b> Md. Raqibul Mostafa, EEE, UIU		
<b>Session Co-chair:</b> Shaikh Muhammad Rizwan Ali, CSE, MIST		
Serial No	Paper ID	Title of the paper
1	22	Performance Evaluation of a Directional Beam Forming Circular Antenna for ISM Band Application
2	175	A Study on the Performance Analysis of Hybrid Diversity Combining Techniques for Rayleigh and Rician Fading Channels under AWGN
3	188	Comparative Analysis of Hybrid Diversity Schemes under AWGN and Impulsive Noise models for Rayleigh Fading Channels
4	203	Simulation of a Massive MIMO FSO System Under Atmospheric Turbulence
5	237	Performance Analysis Through Image and Video Transmission for Alamouti Space Time Block Coding Over Rayleigh and Rician Fading Channel
6	245	Performance Investigation of Multi-Constellation Global Network Satellite System (GNSS) Using Precise Point Positioning over Bangladesh

## Technical Session 1D

Day-1: 18<sup>th</sup> November 2021 (Thursday)

Time: 1515-1700 (Virtual)

Session Title: Multimedia and Signal Processing-1

Zoom ID: 968 9624 3040 (<https://zoom.us/j/96896243040>)

<b>Session Chair:</b> Md Golam Mostafa, EECE, MIST		
<b>Session Co-chair:</b> Group Captain Md Abdul Halim, EECE, MIST		
Serial No	Paper ID	Title of the paper
1	32	MC-CDMA System for Multi-User Using Walsh Code on Rayleigh Fading Channel
2	44	Control Factor Based Two Step LMS Algorithm for Channel Tracking and Impulse Noise Mitigation
3	66	A Real-time End-to-End Bangladeshi License Plate Detection and Recognition System for All Situations Including Challenging Environmental Scenarios
4	129	A Self-Supervised Convolutional Neural Network Approach for Speech Enhancement
5	136	DURISE- Deblurring of Underwater Image Search Engine by CBIR
6	217	Improving Automatic Sign Language Translation with Image Binarisation and Deep Learning

## Technical Session 1E

Day-1: 18<sup>th</sup> November 2021 (Thursday)

Time: 1515-1700 (Virtual)

Session Title: Power System & Renewable Energy-1

Zoom ID: 928 3034 4522 (<https://zoom.us/j/92830344522>)

<b>Session Chair:</b> Abdul Hasib Chowdhury, EEE, BUET		
<b>Session Co-chair:</b> Md. Ali Azam Khan, EECE, MIST		
Serial No	Paper ID	Title of the paper
1	28	Influence of Large-Scale Solar Power on Stability of East West Interconnector System of Bangladesh Power System
2	75	An Efficient Adjustable Duty Control Based Current Limiter for Grid-Connected Solar PV System
3	85	A Case Study on the Cost-effectiveness of Net Energy Metering of Residential Grid Connected Photovoltaic in the Context of Bangladesh
4	126	Survey on Characteristics of Lightning Injuries in Remote Area of Bangladesh and Its Prevention
5	201	Design of an Integral Sliding Mode Controller-Based on a Hybrid Reaching Law for DC Microgrids
6	218	PID, LQR, and LQG Controllers to Maintain the Stability of an AVR System at Varied Model Parameters

## Technical Session 1F

Day-1: 18<sup>th</sup> November 2021 (Thursday)

Time: 1515-1700 (Virtual)

Session Title: Semiconductor Device & Circuits-1

Zoom ID: 962 8977 6466 (<https://zoom.us/j/96289776466>)

<b>Session Chair:</b> Quazi Deen Mohd Khosru, EEE, BUET		
<b>Session Co-chair:</b> Md Soyaeb Hasan, EECE, MIST		
Serial No	Paper ID	Title of the paper
1	34	Diamond Shaped Dual Core High Sensitive Surface Plasmon Resonance Photonic Crystal Fiber Sensor in Visible to Near-Infrared Region
2	43	High-Efficiency Multi Quantum Well Blue LED Using 2D-SiC as an Active Material
3	57	Ultra-Wide Refractive Index Range Photonic Crystal Fiber Based Sensor with Gallium Doped Zinc Oxide Coating
4	178	Theoretical Investigation for Growth of High Quality GaN on Epitaxial Graphene
5	181	Effects of Structural Variation for Improved Performance of a Vertical AlGaIn/GaN Super junction HEMT
6	185	The Gold Coated Plasmonic Refractive Index Sensor with Low Propagation Loss

## Keynote Session 4

Day-1: 18<sup>th</sup> November 2021 (Thursday)

Time: 1830-1930 (Virtual)

Zoom ID: 947 9744 0104 (<https://zoom.us/j/94797440104>)

<b>Session Chair:</b> A. B. M. Alim Al Islam, CSE, BUET	
<b>Session Co-chair:</b> Lieutenant Colonel Muhammad Nazrul Islam, CSE, MIST	
<b>Keynote Speaker</b>	<b>Keynote Topic</b>
Henning Schulzrinne, Columbia University, NY, USA	The Internet of Things that Shouldn't be on the Internet

# Technical Program

## Day-2: 19<sup>th</sup> November 2021 (Friday)

### Industrial Session 1

**Day-2: 19<sup>th</sup> November 2021 (Friday)**

**Time: 0900-1100 (Hybrid)**

**Venue:** General Mustafiz Multipurpose Hall, (10<sup>th</sup> Floor), Tower-1

**Zoom ID:** 949 0089 0035 (<https://zoom.us/j/94900890035>)

<b>Session Chair:</b> Mustafa Habib Chowdhury, EEE, IUB		
<b>Session Co-chair:</b> Colonel Molla Md Zubaer, EECE, MIST		
Time	Name of the Industry	Name of the Speaker
0900-0930	Code 19 & Arduino	Massimo Sacchi and Imtiaz Farhan
0930-1000	Microsoft	Marcus Tee and Jannatul Popy
1000-1030	Grameenphone	S M Monirul Haque
1030-1100	Samsung	Raquibul Hasan and Sazzad Hissain Khan

### Technical Session 2A

**Day-2: 19<sup>th</sup> November 2021 (Friday)**

**Time: 1115-1300 (Virtual)**

**Session Title: Artificial Intelligence-2**

**Zoom ID:** 976 5403 2957 (<https://zoom.us/j/97654032957>)

<b>Session Chair:</b> Mohammed Moshuiul Hoque, CSE, CUET		
<b>Session Co-chair:</b> Asadur Rahman, BME, MIST		
Serial No	Paper ID	Title of the paper
1	106	Driving Range Prediction of Electric Vehicles: A Machine Learning Approach
2	112	Best Eleven Forecast for Bangladesh Cricket Team with Machine Learning Techniques
3	138	Analysis of CNL-UNet for Efficient Biomedical Image Segmentation
4	162	Online Review based Sentiment Classification on Bangladesh Airline Service Using Supervised Learning
5	168	A Review on Predicting Autism Spectrum Disorder (ASD) Meltdown Using Machine Learning Algorithms
6	187	Speech Command Recognition System Using Deep Recurrent Neural Networks



**Technical Session 2B**  
**Day-2: 19<sup>th</sup> November 2021 (Friday)**  
**Time: 1115-1300 (Virtual)**

**Session Title: Multimedia and Signal Processing-2**  
**Zoom ID: 977 8794 6257 (<https://zoom.us/j/97787946257>)**

<b>Session Chair:</b> A. B. M. Aowlad Hossain, ECE, KUET		
<b>Session Co-chair:</b> Lieutenant Colonel Hussain Md Abu Nyeem, EECE, MIST		
Serial No	Paper ID	Title of the paper
1	144	Cochleagram Based Speaker Identification Using Noise Adapted CNN
2	179	A Deep Learning Based Approach for Real-Time Driver Drowsiness Detection
3	210	Automatic Detection and Recognition of Object to Help Visually Impaired People while Visiting Liberation War Museum in Bangladesh
4	213	Design of Inertial Measurement Unit in Attitude and Heading Reference System for Real-Time Maneuver Monitoring by Using Kalman Filter
5	226	Automated Diabetic Retinopathy Detection Using Transfer Learning Models

**Technical Session 2C**  
**Day-2: 19<sup>th</sup> November 2021 (Friday)**  
**Time: 1115-1300 (Virtual)**

**Session Title: Semiconductor Device & Circuits-2**  
**Zoom ID: 946 9894 3748 (<https://zoom.us/j/94698943748>)**

<b>Session Chair:</b> Md. Sherajul Islam, EEE, KUET		
<b>Session Co-chair:</b> Lieutenant Colonel K M Mustafizur Rahman, EECE, MIST		
Serial No	Paper ID	Title of the paper
1	11	Modified ECRL Adiabatic Logic for Ultra Low Power VLSI Applications
2	70	Optimization and Sensitivity Analysis of a Single Core Low Loss PCF Sensor
3	79	Improving Operating Voltage and Frequency Ranges in a Microcontroller-based Low-cost Oscilloscope
4	98	Estimation of ZnO Nanoparticles Crystallite Parameters at Different Compression Temperatures
5	163	Design and Analysis of Miniature Type Impulse Based UWB Transmitter in 90 nm CMOS for Medical Application
6	250	Performance Analysis of Graphene/ $Al_xGa_{1-x}N$ Schottky Contact at Elevated Temperature

**Technical Session 2D**  
**Day-2: 19<sup>th</sup> November 2021 (Friday)**  
**Time: 1115-1300 (Virtual)**

**Session Title: Power System & Renewable Energy-2**  
**Zoom ID: 997 3308 5521 (<https://zoom.us/j/99733085521>)**

<b>Session Chair:</b> Abdur Razzak, EEE, IUB		
<b>Session Co-chair:</b> Captain M S A Al Farook Shiblee (BN), EECE, MIST		
Serial No	Paper ID	Title of the paper
1	21	An Efficient Protection and Control Schemes for IBDG System with Resistive Superconducting Current Limiter
2	95	Design of a 7.5 MVA Automated Substation with Fault Analysis Using ETAP Software
3	113	Demand Side Management in a Model House for Better Load Profile in the Perspective of Bangladesh
4	202	A Hybrid Reaching Law Based Double-Integral Sliding Mode Controller Design to Mitigate SSR Effects in a DFIG-Based Wind Farm
5	211	Effect of Electric Vehicle Fast Charging Station on Residential Distribution Network in Bangladesh
6	253	Design of I-V Scanner to Analyze the Effects of Partial Shading due to Soiling and Bird-dropping on PV Panels

**Technical Session 2E**  
**Day-2: 19<sup>th</sup> November 2021 (Friday)**  
**Time: 1115-1300 (Virtual)**

**Session Title: Power Electronics and Drives-1**  
**Zoom ID: 967 5343 3217 (<https://zoom.us/j/96753433217>)**

<b>Session Chair:</b> Tareq Aziz, EEE, AUST		
<b>Session Co-chair:</b> Fahim Abid, EEE, IUT		
Serial No	Paper ID	Title of the paper
1	47	Design of Rotor for Single-Phase Induction Motor to Improve Startability in Refrigerator Application
2	53	Design and Implementation of IGBT Based Single Phase Multi converter for Industrial Load Control
3	116	A Universal Energy Harvesting System for Ultra-Low Power Management and IoT Applications
4	184	A Single Stage Off-board EV Charger Based on CUK Topology
5	189	An Efficient Switched-Capacitor Based Single DC Source Inverter with Selective Harmonic Elimination
6	249	Design and Analysis of Symmetric and Asymmetric Type Cascaded H-Bridge Multi-Level Inverters

## Technical Session 2F

Day-2: 19<sup>th</sup> November 2021 (Friday)

Time: 1115-1300 (Virtual)

Session Title: Artificial Intelligence-3

Zoom ID: 950 5092 0458 (<https://zoom.us/j/95050920458>)

<b>Session Chair:</b> Muhammad Aminul Haque Akhand, CSE, KUET		
<b>Session Co-chair:</b> M. Akhtaruzzaman, CSE, MIST		
Serial No	Paper ID	Title of the paper
1	192	A Case Study on Risk Prediction of Heart Failure Patients Using Random Survival Forest
2	208	Artificial Intelligence Based Real-Time Attendance System Using Face Recognition
3	225	Performance Analysis of LSTMs and Fbprophet Models for Short Term Load Forecasting
4	229	Design of CanSat for Environmental Monitoring and Object Detection
5	230	A Prototype of Multi-Functional Rescue Robot Using Wireless Communication

## Keynote Session 5

Day-2: 19<sup>th</sup> November 2021 (Friday)

Time: 1400-1500 (Virtual)

Zoom ID: 957 8192 0272 (<https://zoom.us/j/95781920272>)

<b>Session Chair:</b> Habib Kabir, EEE, IUT	
<b>Session Co-chair:</b> Brigadier General Md Humayun Kabir Bhuiyan, ME, MIST	
Keynote Speaker	Keynote Topic
Marco Liserre University of Kiel, Germany	Unlocking the Hidden Capacity of the Electrical Grid Through Power Electronics

## Keynote Session 6

Day-2: 19<sup>th</sup> November 2021 (Friday)

Time: 1515-1615 (Virtual)

Zoom ID: 964 7812 2653 (<https://zoom.us/j/96478122653>)

<b>Session Chair:</b> M M A Hashem, CSE, KUET	
<b>Session Co-chair:</b> Major Md Abdul Wahed, EECE, MIST	
<b>Keynote Speaker</b>	<b>Keynote Topic</b>
Ahmet Murat Tekalp Koç University, Turkey	Recent Advances in Learned Image and Video Compression

## Keynote Session 7

Day-2: 19<sup>th</sup> November 2021 (Friday)

Time: 1630-1730 (Virtual)

Zoom ID: 998 7249 4547 (<https://zoom.us/j/99872494547>)

<b>Session Chair:</b> Muhammad Abdul Goffar Khan, EEE, RUET	
<b>Session Co-chair:</b> Commander K M Tanveer Anwar, EECE, MIST	
<b>Keynote Speaker</b>	<b>Keynote Topic</b>
Frede Blaabjerg Aalborg University, Denmark	Power Electronics Technology - Quo Vadis

## Industry Session 2

Day-2: 19<sup>th</sup> November 2021 (Friday)

Time: 1745-1930 (Virtual)

Zoom ID: 918 0950 5950 (<https://zoom.us/j/91809505950>)

<b>Session Chair:</b> Kazi Abu Taher, ICT, BUP		
<b>Session Co-chair:</b> Major Md. Fazla Elahi, BME, MIST		
<b>Time</b>	<b>Name of the Industry</b>	<b>Name of the speaker</b>
1745-1845	Cumulus Neuro	Laura M. Rueda-Delgado and Md Nurul Islam
1845-1930	Walton	Tapash Kumer Mojumder

## Day-3: 20<sup>th</sup> November 2021 (Saturday)

### Special Session 3A

Day-3: 20<sup>th</sup> November 2021 (Saturday)

Time: 0900-1130 (Virtual)

Session Title: Imaging and Next Generation Networks for Smart Applications-1

Zoom ID: 961 2378 1240 (<https://zoom.us/j/96123781240>)

<b>Session Chair:</b> Brigadier General A K M Nazrul Islam, EECE, MIST		
<b>Session Co-chair:</b> Major Md Aminul Islam, EECE, MIST		
Serial No	Paper ID	Title of the paper
1	35	Comparison of Total Electron Content with International Reference Ionosphere Model Predictions near the Northern Crest of EIA at Bangladesh
2	139	Comparison of Condition Numbers and Ranks of the MIMO Channel at 77 GHz Carrier Frequency
3	153	Optimization of Reconfigurable Intelligent Surface for M2M Communications over Cellular Networks
4	215	Multimodal Decision Fusion of EEG and fNIRS Signals
5	216	A Novel Authentication Mechanism for Securing Underwater Wireless Sensors from Sybil Attack
6	261	Data-driven Embedding with Pixel Repetition for High Capacity Reversible Data Hiding

### Special Session 3B

Day-3: 20<sup>th</sup> November 2021 (Saturday)

Time: 0900-1130 (Virtual)

Session Title: Imaging and Next Generation Networks for Smart Applications-2

Zoom ID: 952 3341 9471 (<https://zoom.us/j/95233419471>)

<b>Session Chair:</b> M Shamim Kaiser, IIT, JU		
<b>Session Co-chair:</b> Nusrat Sharmin, CSE, MIST		
Serial No	Paper ID	Title of the paper
1	36	Cardiac Arrhythmia Diagnosis Based on Features Extraction and Convolutional Neural Network from ECG Signals
2	99	Bangla-ExtraSum: Comparative Analysis of Different Methods in Automated Extractive Bengali Text Summarization
3	135	A Deep CNN Based Kaggle Contest Winning Model to Recognize Real-Time Facial Expression
4	140	Revisiting Deep Learning Models for Road Lane Detection
5	142	Finding Efficient Machine Learning Model for Hand Gesture Classification Using EMG Data
6	228	A Framework for Eye-Based Human Machine Interface

### Special Session 3C

Day-3: 20<sup>th</sup> November 2021 (Saturday)

Time: 0900-1130 (Virtual)

Session Title: Imaging and Next Generation Networks for Smart Applications-3

Zoom ID: 939 4231 7607 (<https://zoom.us/j/93942317607>)

<b>Session Chair:</b> Abu Yousuf, IIT, JU		
<b>Session Co-chair:</b> Colonel Shajahan Majib, CSE, MIST		
Serial No	Paper ID	Title of the paper
1	50	Chaotic Singer Grasshopper Optimization Algorithm for Solving Combined Economic and Emission Dispatch
2	54	An Adaptive System for Detecting Driving Abnormality of Individual Drivers Using Gaussian Mixture Model
3	145	Estimating Traffic Density on Roads Using Convolutional Neural Network with Batch Normalization
4	149	Developing a Machine Learning Based Support System for Mitigating the Suppression Against Women and Children
5	152	A Deep Ensemble Approach for Recognition of Papaya Diseases Using Efficient Net Models
6	232	Performance Analysis of Initialization Algorithms of Deep Neural Network Based Coordinated Beamforming System for mm Wave

### Special Session 3D

Day-3: 20<sup>th</sup> November 2021 (Saturday)

Time: 0900-1130 (Virtual)

Session Title: Imaging and Next Generation Networks for Smart Applications-4

Zoom ID: 928 9807 9425 (<https://zoom.us/j/92898079425>)

<b>Session Chair:</b> Shamim Al Mamun, IIT, JU		
<b>Session Co-chair:</b> Lieutenant Colonel Hussain Md Abu Nyeem, EECE, MIST		
Serial No	Paper ID	Title of the paper
1	09	Evaluation of DBSCAN Algorithm on Different Programming Languages: An Exploratory Study
2	107	Impact of Trace-Based Mobility Models on the Energy Consumption of Delay-Tolerant Routing Protocols
3	118	HDM-Chain: A Secure Blockchain-based Healthcare Data Management Framework to Ensure Privacy and Security in the Health Unit
4	120	Integrating Cloud Computing in E-healthcare: System Design, Implementation and Significance in Context of Developing Countries
5	200	Interpreting and Comparing Convolutional Neural Networks: A Quantitative Approach
6	259	Functional Modification of Advanced Encryption Standard Algorithm by Perturbing the Diffusion and Confusion Properties

## Technical Session 3E

Day-3: 20<sup>th</sup> November 2021 (Saturday)

Time: 0900-1130 (Virtual)

Session Title: Photonics and Smart Computing-1

Zoom ID: 914 4248 3529 (<https://zoom.us/j/91442483529>)

<b>Session Chair:</b> Mohammed Hossam-E-Haider, EECE, MIST		
<b>Session Co-chair:</b> Md Soyaeb Hasan, EECE, MIST		
Serial No	Paper ID	Title of the paper
1	55	Analysis of a Hexagonal Lattice Photonic Crystal Fiber Biosensor Based on Surface Plasmon Resonance
2	96	IoT Based Smart Waste Monitoring and Management System
3	103	The Role of IoT in Digitalizing Mining Sector of Bangladesh
4	141	An IoT-based System for Air Pollution Data Analysis and Visualization
5	165	Design and Construction of Biogas Plant from Human Excreta at Remote Island of Bangladesh and Its Socio-Environmental Benefits
6	242	Thermal Simulation of 3D high Power GaN HEMT with a Low-Cost Technique to Reduce Junction Temperature due to Self-Heating

## Keynote Session 8

Day-3: 20<sup>th</sup> November 2021 (Saturday)

Time: 1145-1245 (Virtual)

Zoom ID: 938 6251 4979 (<https://zoom.us/j/93862514979>)

<b>Session Chair:</b> Md. Ali Azam Khan, EECE, MIST	
<b>Session Co-chair:</b> Mubdiul Islam Rizu, EECE, MIST	
Keynote Speaker	Keynote Topic
Ranjan Gangopadhyay LNM Institute of Information Technology, India	Multi-perspectives of New and Next Generation Radio

## Academia Session 1

Day-3: 20<sup>th</sup> November 2021 (Saturday)

Time: 1145-1245 (Virtual)

Zoom ID: 912 2836 7332 (<https://zoom.us/j/91228367332>)

<b>Session Chair:</b> Md Mahbubur Rahman, CSE, MIST	
<b>Session Co-chair:</b> Asadur Rahman, BME, MIST	
Name of the Speaker	Topic
Anirudh Agarwal LNM Institute of Information Technology, India	UAV Relaying for Optimal B5G Cooperative Communication

## Tutorial Session 1

Day-3: 20<sup>th</sup> November 2021 (Saturday)

Time: 1145-1315 (Virtual)

Zoom ID: 974 1914 5217 (<https://zoom.us/j/97419145217>)

Industry Name	Name of the Speaker	Tutorial Topic
Code 19 (Arduino)	Khadija Akhter	Advanced Arduino IoT Board Hands-on Tutorial Session

## IEEE BD Section Event

Day-3: 20<sup>th</sup> November 2021 (Saturday)

Time: 1330-1430 (Virtual)

Zoom ID: 912 9488 5194 (<https://zoom.us/j/91294885194>)

Session Name	Name of the Speaker
IEEE BD Section Event	IEEE BD Ex-COM Members

## Closing and Award Giving Ceremony

Day-3: 20<sup>th</sup> November 2021 (Saturday)

Time: 1500-1600 (Virtual)

Zoom ID: 979 8921 9612 (<https://zoom.us/j/97989219612>)