

ICEE 2022 Technical Program Schedule
21 December 2022, Wednesday

21 December 2022, Wednesday (9:00-10:00) Registration	
21 December 2022, Wednesday (10:00-11:00) Inauguration Room No: FPGS Complex, 8th Floor, ECE Building	
21 December 2022, Wednesday (11:00-11:30) Tea Break Room No: FPGS Complex, 8th Floor, ECE Building	
21 December 2022, Wednesday (11:30-12:30) Panel Discussion: Towards a Sustainable and Resilient Power System in Bangladesh Resource Persons: Mr. Mohammad Hossain, DG, Power Cell; Golam Kibria, MD, PGCB; Major General Moyn Uddin (Retd), Managing Director, EGCB; Arshad Mansoor, President & CEO, Electric Power Research Institute (EPRI), Charlotte, USA Room No: ECE 920 Session Chair: Dr. S. Shah Nawaz Ahmed, BUET	
21 December 2022, Wednesday (12:30-1:00) Spotlight Presentation: Creating a Climate-Ready Bangladesh Power System Presenter: Arshad Mansoor, President & CEO, Electric Power Research Institute (EPRI), Charlotte, USA Room No: ECE 920	
21 December 2022, Wednesday (1:00-2:30) Lunch Break Room No: FPGS Complex, 8th Floor, ECE Building	
21 December 2022, Wednesday (2:30-3:30) Keynote Speech 1: Lifelong Learning for Cyber-Security and Time Series Forecasting for Social Studies Using Scalable Spatio-Temporal Graph Neural Networks Speaker: Latifur Khan, Professor, Department of Computer Science, University of Texas at Dallas (UT Dallas), USA Room No: ECE 920 Session Chair: Dr. Muhammad Masoor Ali, BUET	
21 December 2022, Wednesday (3:30-4:15) Invited Talk 1: Strategies towards a 'Smart City' and demonstration of City-led 'Open Data Platform' in Australia Speaker: Emran Amin, Spectrum Planning Engineer, Australian Communication and Media Authority Room No: ECE 920 Session Chair: Dr. Abdul Hashi Chowdhury, BUET; Dr. Md. Farhad Hossain, BUET	
21 December 2022, Wednesday (4:15-4:30) Tea Break Room No: FPGS Complex, 8th Floor, ECE Building	

21 December 2022, Wednesday 4:30-6:00 EEPS 1 - Power Electronics I Room No: ECE 632 Session Chair: Dr. Mohammad Jahangir Alam, BUET; Dr. Muhammad Abdullah Arafat, BUET	
133	Performance Analysis of a Permanent Magnet Synchronous Machine Driven Energy Efficient Low Power Fuel Cell Electric Vehicle Jahan, Israt; Islam, Md. Ariful; Farrok, Omar*
148	An Improved Direct Torque Control Scheme for PWM Inverter Based Solar PV Array Fed Induction Motor Drives Nahin, Nazmul Islam ; Biswas, Shuvra Prokash*; Mondal, Sudipto; Hossain, Md. Kamal ; Ferdousi, Zamanul; Arafat, Abdullah
151	Analysis of Coupling Coefficient and Source Frequency Variations in Basic Compensation Topologies of MRC Based WPT Systems Haque, Md Touhidul*; Arafat,Abdullah; Mohammet, Abdullal Al
173	Analysis of Traction Power of Electric Three Wheelers in Bangladesh Al-Hossain, Md Junaed*; Hasan, Md. Zakir; Khan, Md. Ziaur Rahman
226	A Triple Boost Self-Balanced Switch Capacitor Converter Based Multilevel Inverter Elahi, Md. Fazla; Islam, Md Aminul*

21 December 2022, Wednesday 4:30-6:00 AIBIO 1 - AI & Healthcare I Room No: ECE 634 Session Chair: Dr. Shaikh Anwarul Fatah, BUET; Dr. Hafiz Intiaz, BUET	
5	Predicting Burn Injury Intensity from Skin Burn Images with Hybrid Machine Learning Technique Saha, Sayma Alam*; Tahsina Farah Sanam
34	A Deep Ensemble Model with an Efficient Feature for Multi-class Arrhythmia Classification Utilizing 12-lead ECG Signal Mahmud, Md. Sultan ; Rahman Nayyan, Md. Mizanur*; Hasan, Samir; Taj, Md. Nasim Arifj
39	A Low-cost IoT-based Health Monitoring System Hasan, Samir*; Arafat, Abdullah
99	X-ray Computed Tomography Sinogram Data Generation from Microwave Tomography Measurements Using Deep Neural Networks Jstiaik, Md. Abar; Hasnine, Iftekhar Mahmud; Kiourti, Asimina; Alam, Md. Shah *; Islam, Md. Asiful
96	RIGL Modeled Curveto Coefficient Image-based Breast Tumor Classification Using deep CNN Kabir, Shahriar Mahmud*; Hassan Bhuiyan, Mohammed Imamul
107	Cardio Vascular Disease prediction using machine learning with improved feature selection Uddin, Mohammad Istiaq*; Ismom, Abdullah Al Abar; Hassan, Zahid; Arifin, Mohammed Nazmul
201	Cotton Leaf Disease Detection & Classification Using Lightweight CNN Architecture Peyal, Hasibul Islam*; Pramanik, Md Abu Hanif; Nahiduzzaman, Md. Goswami ; Pollob; Mahapatra, Uttam; Austi, Jobiera Jahan

21 December 2022, Wednesday 4:30-6:00 EP 1 - Electronic and Photonic Materials I Room No: ECE 625 Session Chair: Dr. Mahubb Alam, BUET;	
33	The role of crystallographic orientation in thickness assisted modulation of optical properties of ZnSe thin-film Zubair, Mohammad A*; Chowdhury, Mohammed Tareque
91	Ab Initio Study of Tunable Electronic Properties of Monolayer Mo1-xWxS2 Alloys Utsah, Swagata Goswami; Afridi, Sheikh Mohd. Ta-Seen; Zubair, Ahmed*
112	Comparison of Optoelectronic Characteristics of Carbon Thin Films Electrodeposited on Silicon and ZnO Substrates Uddin, Mohammad Ahar*; Soga, Tetsuo ; Mominuzzaman, Sharif Mohammod
115	Design of a metamaterial perfect absorber: A solar energy harvester Hiam, Sohani Munteba*; Paul, Alok Kumar; Ahmed, Tanvir
128	Structural, electronic and optical characterization of edge passivated B and P doped GaN nanostructures Hasan, Md. Abir; Subrina, Samia*
152	First-Principles Study on the Structural, Electronic and Optical Properties of Janus SiSSe Monolayer Tanisha, Tanisha Tahreen; Hiranomy, Nishat Tasnim T; Tabassum, Sumaiya Jahan; Subrina, Samia*
176	Structural, optical and electrical properties of La - Mg co-substituted Bi0.5Na0.5TiO3 dielectric Mozahid, Faisal A.*; Zubair, Mohammad A

21 December 2022, Wednesday 4:30-6:00 CSP 1 - Image Processing I Room No: ECE 627 Session Chair: Dr. S. M. Mahubur Rahman, BUET; Dr. Mohammad Ariful Haque, BUET	
23	Development of Algorithm to Extract Features from Canopgraph Signal Anwar, Shahin*; Khan, Fahiba
26	A Reservation-based Smart Parking System for Urban Areas Mejbaul Haque, Md.*; Manjurali Gan, Md.; Ataur Rahman, Md.
62	CONVOLUTIONAL NEURAL NETWORK BASED FEATURE HYBRIDIZATION FOR CT SCAN IMAGES: COVID-19 DETECTION PERSPECTIVE Belail, Md. Habibullah*; Mahmud, Md. Tareq; Rahman, Md Obaidur
85	Computer Vision Based Object Detection and Recognition System for Image Searching Nayem, Tanvir Ahamed*; Motaharuzzaman, S M; Rahman, Md. Habibur
116	COVID-19 Identification from Lung CT Scans in a Low-resource Setting Using A Regularized 3D Convolutional Neural Network Ahmed, Tanvir*; Nakib, Mohammm; Miah, Md Messal Monem; Haque, Mohammad Ariful
126	A Deep Learning Based Person Detection and Heatmap Generation Technique with a Multi-Camera System. Siam, Md. Shakhrul Iman*; Biswas, Subrata

Invited Talk 2: Full-Duplex Integrated Sensing and Communications for Distributed Systems
Speaker: Kumar Vijay Mishra, Senior Fellow, the United States DEVCOM Army Research Laboratory (ARL), Adelphi
 Room No: ECE 920
 Session Chair: Dr. Md. Saifur Rahman, BUET

22 December 2022, Thursday

22 December 2022, Thursday (8:00-9:00) Registration	
22 December 2022, Thursday (9:00-10:30) EEPS 2 - Renewable Energy I Room No: ECE 632 Session Chair: Dr. Farseen Mannan Mohammedy, BUET	
8	A cross-country techno-economic assessment of solar affected solar farms in Bangladesh Shihab, Md. Mahmudul Hasan*; Didarul Islam, Mohammad ; Sajid, Redwan N.; Kham, Mohammad Ryan; Arshad Mansoor
11	Albedo and Temperature Aware Analysis of Bifacial vs Monofacial Floating Photovoltaics in Bangladesh Rimon, Golam Rabbani*; Khan, Mohammad; Rahman, Saad; Sajid, Redwan N.
44	Hybrid PSO assisted Incremental Conductance MPPT Algorithm under Extreme Partial Shading Conditions Hassan, Quazi Rafiq*; Nafi, Intiaz Mahmud; Tabassum, Shanzana; Abid, Fahim
51	A Flexible, Ultrasensitive, and Highly Selective Bi-Functional Acetone and Ethanol Gas Sensor Rahman, Md. Tawabur*; Bhuiyan, Md. Saleh Akram ; Jahirul Islam, Md. Reza ; Khan Mamun ; Gurung, Ashim; Qiao, Qian
55	Material Based Lightweight Linear Electrical Generator With Improved Features for Harvesting Oceanic Wave Energy Molla, Selim; Farrok, Omar*; Alam, Mohammad Jahangir
107	A Naive Bayes Classifier Based Energy Scheduling for Home Energy Management System (HEMS) Roy, Chhanda*, Binodan; Karmaker, Anir; Ghosh, Himangshu Ranjan
147	A New Topology of Single-Phase Transformer-less Inverter for Reducing Leakage Current of Grid-tied Photovoltaic Systems Biswas, Mohab; Biswas, Shuvra Prokash*; Mondal, Sudipto; Hossain, Md. Kamal ; Ferdousi, Zamanul; Nahin, Nazmul Islam

22 December 2022, Thursday (9:00-10:30) AIBIO 2 - Machine Learning I Room No: ECE 634 Session Chair: Dr. Md. Saifur Rahman, BUET; Dr. Mohammad Ariful Haque, BUET	
28	Identifying Sentiment and Recognizing Emotion from Social Media Data in Bangla Language Rahman, R*
46	Sentiment Analysis of COVID-19 Vaccination in Under-Resourced Bangla Language with Code-Mixed Text from Social Media Hossain, Md Azam*; Khan, Mahamud Rahman; Rahmatullah, S.M. Naveed; Islam, Md. Fuzul; Kamal, Abu Rashed Mosafa
54	Zero-Shot Entity Representation Learning for Temporal Knowledge Graph Mitra, Tanni*; Ali, Muhammad Masroor
57	Static Hand Gesture Recognition by RCDT Classifier Hasan, Kamrul*; Chowdhury, Mehdi Hasan; Pathan, Naqib Sad; Chowdhury, Aditta; Hossain, Quazi Delwar
106	Bioradiolocation Based Multi-Class Sleep Stage Classification Using Time and Frequency Features With Random Forest Classifier Siam, Md. Shakhrul Iman*; Siddiqui, Md. Saiful Bari; Abedin Khan, Md. Saifur Rahman; Md. Hossain
109	DeepLinkNet: A Deep Convolutional Architecture for Automatic Segmentation of Corneal Endothelial Cell Mehdiqul, Mohammed Imamul Hassan Bhuiyan Halder, Barqodes; Tesnim, Janin*; Saha, Oshy; Mahmud, Talha Ibn; Ahmed, Shabed
222	Fruit Quality Assessment with Densely Connected Convolutional Neural Network Morshed, Samin Md.; Ahmed, Sabir*; Ahmed, Tasnim; Islam, Muhammad Usama; Rahman, A.B.M. Ashkur

22 December 2022, Thursday (9:00-10:30) EP 2 - Photonics I Room No: ECE 625 Session Chair: Dr. Md. Shaifiquil Islam, BUET; Dr. Sajid Muhalimin Chowdhury, BUET	
27	Optical Properties Prediction of Negative Dispersion-Compensating Photonic Crystal Fiber Using Machine Learning Khalil, Md. Ibrahim*; Islam, Md. Saiful
37	Enhancing average visible transmittance of CdS buffer layer for CuInGaSe based semi-transparent photovoltaics: metal ion substitution approach Sajjad, Redwan N.*; HOQUE, MD MAYRAZUL I; Zubair, Mohammad A
64	Assessment of Polyurethane Nanofiber with Nickel as Terahertz Metamaterial and Strain Sensor Khandaker, Morshed*; Nikfarjam, Salegh ; Ali Raj, Hussain ; Ghosh, Dipannita ; Islam, Nazmul; Rahman, Anis
87	2-T-Non-Toxic Tandem solar cell with Distinct HTL Materials Cherage, Sheikh Hasib*; Alam, Mohammad Jahangir
137	Transport Layer Material and Thickness Optimization of Cs2TiB6 Based Solar Cell Ahmed, Shakil*; Mominuzzaman, Sharif Mohammad
145	A low cost Ni-based planar multilayer structure for passive heating of buildings Asad, Muhammad S*; Alam, Muhammad Z
230	Square Photonic Crystal Fiber Sensor for Detecting Toxic Chemical in Liquid Foodstuffs Preserved in Plastic Bottles Mou, Farhana Akter*; M. Faisal

22 December 2022, Thursday (9:00-10:30) CSP 2 - Wireless Communication I Room No: ECE 627 Session Chair: Dr. Pran Kanai Saha, BUET; Dr. Md. Farhad Hossain, BUET	
76	Design of a Microstrip Antenna Having 360° Beam Steering Capability in Azimuth Plane Deb, Sourave*; Turin, Hussur Rahman; Rahman, Muhammad Asad
100	A Physically Compact Planar Waveguide (CPW)-fed Flexible Antenna for SmartWave 5G Applications Yousuf, Baqir; Omi, Asif Iftekhar*; Sajesh, M Mahmudul Hasan; Sagar, Md. Samiul Islam; Karacolak, Turku; Sekhar, Praveen
105	Chipless RFID Sensory Tag for Crack Detection in Underground Mine Support Systems Mpa Mulyanselage, Likitha Lasantha*
108	Design of a Hexad-Polarization Antenna With High Isolation and Switchable Feed Network Rahman, Md. Naim ur*; Rahman, Muhammad Asad ; Hossain, Md Azad; Hasan, Maodhul; Nishiyama, Eisuke; Toyoda, Ichihiko
111	Spectral Efficiency of Multisur Massive MIMO-OFDM THz Wireless Systems with Hybrid Beamforming under Inter-carrier Interference Ullah, Md. Saheeb*; Sarkar, Sudipta Chandra ; Bin Ashraf, Zulqarnain ; Uddin, Md. Forkan

22 December 2022, Thursday (10:30-10:45)
Tea Break
Room No: FPGS Complex, 8th Floor, ECE Building

22 December 2022, Thursday (10:45-12:15) EEPS 3 - Power Systems I Room No: ECE 632 Session Chair: Dr. Nahid Al-Masood, BUET	
47	Power Quality Analysis of Hybrid AC/DC Microgrid Abelidin, Abir Kallayan*; Sufi, Suab Al; Neshia, Khyrun Nesa ; Reza, Md. Shamim
72	An Analysis on Semidefinite Relaxation of Classical Optimal Power Flow Problem Rahman, Md Obaidur*; Masood,Nahid Al
79	Efficient Self-Supervised Denoising from Single Image Jubyera, Jubyera*; Kotal, Sajid; Showrav, Angray Md. Sargia; Ryu, Byungyong; Iqbal, Md. Tauhid Bin
113	Levelized Cost of Energy and Cost-Benefit Analysis of 230 kV Bulk Power Transmission in Bangladesh Haque, A. S. M. Shahriar*
135	Impact of System Parameters on EHV Line Reactor Requirements Haque, A. S. M. Shahriar*; Mijan, Muhammad Afabazzaman

22 December 2022, Thursday (10:45-12:15) AIBIO 3 - Biomedical Engineering Room No: ECE 634 Session Chair: Dr. Muhammad Tark Arafat, BUET	
35	Transfer Learning-based Ensemble Approach for Organ Classification: An Empirical Study Islam, Sabrina*; Tabassum, Farzana; Rizwan, Siana; Choudhury, Tareque Mohmud
43	Segmentation of Retinal Blood Vessels from Fundus Images Using U-Net Sifa, Md Belal Uddin*; Kibria, Jayed Bin; Bhattacharjee, Shantanu; Pathan, Naqib Sad; Mohammad, Nur
97	Sugar impacts upon bending modulus of charged lipid membranes Sarkar, Malay K*
200	A bioinformatics approach to identify candidate biomarkers and common pathways between bipolar disorder and stroke Hosen, Md. Faruk; Basar, Md. Abul ; Paul, Bikash Kumar*; Hasan, MD Rakibul ; Uddin, Muhammad Shahin

22 December 2022, Thursday (10:45-12:15) EP 3 - Electronic and Photonic Materials II Room No: ECE 625 Session Chair: Dr. M. M. Shahidul Hassan, East West University, Dhaka; Dr. Samia Subrina, BUET	
31	Performance Comparison of Different AGNR RTDs Munna, Mahfuzur Rahman*; Sadi, Ashique E Elahi ; Alam, Mahubb
66	Investigation of MoS2/Perovskite/WSe2 on Si Tandem Structure of Solar Cell Morshed, Md. Saklain*; Md. Shaifiquil Islam
114	Lead-free (Na0.5Bi0.5)0.40Ba0.60TiO3 electrochromic Preparation and characterization Islam, Md. Aiful*; Rahman, Mohammad A
119	Design and Optimization of Copper Antimony Sulfide Thin Film Solar Cell Bhattacharjee, Sujay*; Hassan, Mehedi; Talukder, Shaheedul Alam
193	Modeling and Numerical Analysis of Heterostructure Single-Walled Carbon Nanotube (SWCNT) Solar Cell Uddin, Mohammad Ahar*; Islam, Md. Ariful; Nath, Imron Del; Al Rafi, Jobair ; Mominuzzaman, Sharif Mohammad
208	Strain Induced Thermoelectric Property Tunability of Single-Wall Carbon Nanotubes: A First-Principles Study Islam, Md. Mafizul; Zubair, Ahmed*
231	Analytical Study of 1D Monocrystal Graphene Island based Single Electron Transistor (SET) HOSSAIN, S. M. ABIR*; Mominuzzaman, Sharif Mohammad ; Ibn Hasan, Nahian

22 December 2022, Thursday (10:45-12:15) CSP 3 - Image Processing II Room No: ECE 627 Session Chair: Dr. Mohammad Inam Hassan Bhuiyan, BUET; Dr. Lufu Akter, BUET	
59	Analysis of brain signal on visual noise affecting driver's attention using deep learning Sojan, Md. Azizul Hoque*; Rahman, Md. Nayem; Datta, Avishake Kumar
95	Automated Lead Crossing System: A Computer Vision Based Approach with Raspberry Pi Microcontroller Murshed, Rafid Umayer U*; Dhruba, Sandip Kollal; ISLAM, MD TAWHEDUL; Akter, Mst. Rumi
104	Segmented Linear Discriminant Analysis for Hyperspectral Image Classification Afjal, Masud Ibn*; Mondal, Md. Nazrul Islam ; Mamun, Md. Al
126	Spectral-Spatial Feature Reduction for Hyperspectral Image Classification with Optimized Technique Series Islam, Md. Touhid*; Kumar, Mohadeb; Islam, Md. Rasheedul; Sohrwardi, Md.
154	Development and Performance Analysis of A Novel Single-bin FFT Algorithm Iqbal, Md. Asif*; Rahman, Md. Saifur
172	Start-End Writing Integration with Convolutional Neural Network for Bengali Handwritten Numerical Recognition Akhand, M. A. H.*; Zaman, Rahat uz; Hye, Shadman

22 December 2022, Thursday (12:15-1:00)
Invited Talk 3: Promise of plasmonics: From communications to renewable energy
Speaker: Muhammad Zulfikar Alam, Assistant Professor, Queen's University, Canada
 Room No: ECE 920
 Session Chair: Dr. Md Zamaid Baten, BUET; Dr. Orchi Hassan, BUET

22 December 2022, Thursday (1:00-2:30)
Lunch Break
Room No: FPGS Complex, 8th Floor, ECE Building

22 December 2022, Thursday (2:30-4:00) EEPS 4 - Power Electronics II Room No: ECE 632 Session Chair: Dr. Md. Ziaur Rahman Khan, BUET	
4	Voltage Stability Analysis of a Dual Active Bridge Based Solid State Transformer in a Smart Distribution System with Buck-Boost Controller Jannat, Ordatur*; Hossen Joy, Tanvir; Reza, Md. Shamim
138	Design of Circuit Compensators for Series-Parallel Compensation Topology in Critical Magnetic Resonance Coupling Mohammet, Abdullah Al*; Haque, Md Touhidul; Arafat, Abdullah
146	Advanced Switching Sequences for a Multiphase Interleaved DC-DC Boost Converter Using TMS320F28335 DSP Control Card Mondal, Sudipto; Biswas, Shuvra Prokash*; Nahin, Nazmul Islam
166	A Mathematical Modelling of Discharge and Charge Phenomena of A Lead-Acid Battery Amin, Md. Sadman*; Rahman, Md. Obaidur; Khan, Md. Ziaur Rahman
195	Cross-connected Multi Input Multi Level Inverter for Low Harmonics Operation FERDOUS, MD. JANNATUL*; Mastakina, Mohammad; Mahmud, Md. Zakir

22 December 2022, Thursday (2:30-4:00) AIBIO 4 - AI & Healthcare II Room No: ECE 634 Session Chair: Dr. Celia Shahzad, BUET; Dr. Apratim Roy, BUET	
73	A Heuristic for Maximum Greedy Consensus Tree Problem Alam, S M Raihanul*; Mahmud, Md. Moaz; Rahman, Md. Saifur
174	Methods for Detecting Epilepsy: A Comparative Analysis on Improved Deep Learning Algorithms Rahman, Senjuti*; Hasan, Mehedi; Sarkar, Ajay K
188	Machine Learning based Alcoholism Detection Using Higuchi's Fractal Dimension Features from EEG Zaman, Bipasha; Peya, Zahur Jannat; Akhand, M. A. H.*
204	An Efficient Bidirectional LSTM-Based Deep Neural Network for Automatic Emotion Recognition Using EEG Signal Mahmud, Md. Sultan; Saha, Oshy; ASADUZZAMAN, FATMA*
212	A modified CNN model for diagnosing schizophrenia disease using fMRI data Ruhan, Nazmul Hasan; Uddin, Riiaz; SHAKHAWAT, MD; Reza, Md. Mahfuz; Hossain, Md. Abir*
221	Implementation of Explainable AI in Mental Health Informatics: Suicide Data of the United Kingdom Mahamud, Al Hasib*; Alam, A. N. M. Sajedul; Zaman, Shifat ; Dey, Anob Kumar
224	A Two-stage Approach for Plant Disease Classification Based on Deep Neural Networks and Transfer Learning Showrav, Tuskar Talukder; Bin, Sajib; Afif, Monir Hossain; Ahmed, Reza Israk; Shaikh Anwarul Fatah; Ahmed, Shahed

22 December 2022, Thursday (2:30-4:00) EP 4 - Nanomaterials and Devices Room No: ECE 625 Session Chair: Dr. Qazi Deen Mahid Khasru, BUET; Dr. Md Zamaid Baten, BUET	
92	Ultra-low energy efficient topological field-effect transistor based on stanene under perpendicular electric field induced topological phase transition ROY, DHIMAN; Alam, Mahubb*
102	Design of a Highly Randomized Crossover Ring Oscillator Physical Uncloable Function Amin, Faisal*; Rahman, Md Abul; Sakib, Md. Abdullah Al; Lipu, Alvi Anasul; Fakhir, Sharif
191	An Efficient Triple-Error Correction Method for Memristor-Based Memory Systems Sumon, Md. Mebedy Hasan*; Ali, Md. Liakot; Sadi, Muhammad Sheikh
199	Alignment of Interacting Multi-Wall Carbon Nanotubes in Suspension Using Dielectrophoretic Framework Ismail, Ishtar; Zubair, Ahmed*
213	Unsupervised Recycled FPGA Detection Using Symmetry Analysis Tarique, Tanvir Ahmad; Ahmed, Foisal*; Jenibhin, Maksim; Ali, Md. Liakot
214	Modeling Second Order Anisotropy of Monodomain Magnetic Body Tauki, Md. Sadik Yasir*; Hassan, Orchi
220	Benchmarking of Probabilistic-bit based Algorithm for Max-cut Problem Khan, Marzia*; Hassan, Orchi

22 December 2022, Thursday (2:30-4:00) CSP 4 - Wireless Communication II Room No: ECE 627 Session Chair: Dr. Mohammad Faisal, BUET; Dr. Md. Norkan Mia, BUET	
163	Four-element MIMO Antenna for WiFi, WiMAX, WLAN, 4G, and 5G sub-6 GHz Applications Das, Ferdian; Mia, Md. Sharif ; Mostafa, Aymam ; Islam, M. T. ; Alam, Touhidul ; Azim, Rezaul*; Mominuzzaman, Md.
169	Performance Analysis of a Compact Dual-band UWB Patch Antenna for Biomedical Applications Arifin, Farhadur*; Saha, Pran Kanai
186	Effect of Quantum Repetition Code on Fidelity of Bell States in Bit Flip Channels Shubba, Syed Emad Uddin*; Rahman, Md. Saifur
219	Performance Analysis of Classical and Graph Neural Network-Based Power Allocation Schemes for Single-hop Ad hoc Wireless Networks Rahman, Md. Maisoon*; Rahman, Md. Saifur
223	Development of a Broadband Antenna for 5G Sub-6 GHz Cellular and IoT Smart Application Applications Rani, Tithi; Das, Sajeb Chandra; Hossen, Md Shakhawat; Paul, Lion Chandra*; Roy, Tusbar Kanti

22 December 2022, Thursday (4:00-4:30)
Tea Break
Room No: FPGS Complex, 8th Floor, ECE Building

22 December 2022, Thursday (4:30-5:30)
Keynote Speech 2: Photonic Devices Exploiting Plasmonics
Speaker: B. M. Azizur Rahman, Professor, City University of London, UK
 Room No: ECE 920
 Session Chair: Dr. Md. Shah Alam, BUET; Dr. Ahmed Zubair, BUET

22 December 2022, Thursday (5:30-6:00)
Invited Talk 4: Computer-Aided System for Hormone Receptor Expression in Breast Carcinoma
Speaker: Mohammad Faizal Ahmad Fauzi, Professor, The Faculty of Engineering, Multimedia University, Malaysia
 Room No: ECE 920
 Session Chair: Dr. Shaikh Dr. Shaikh Anwarul Fatah, BUET

23 December 2022, Friday

23 December 2022, Friday (8:00-9:00)
Registration

23 December 2022, Friday (9:00-9:30)
Invited Talk 5: Atomistic Modeling of Nanoscale Phenomena in Emerging Semiconductor Devices
Speaker: Shaikh S. Ahmed, Professor, Southern Illinois University at Carbondale, USA
 Room No: ECE 920
 Session Chair: Dr. Sharif Mohammad Mominuzzaman; Dr. Mahubb Alam, BUET

23 December 2022, Friday (9:30-10:00)
Invited Talk 6: Future of Tele-presence Using Light Field Imaging Systems
Speaker: Gazi Naser Ali, Research Scientist, Intel Labs, USA
 Room No: ECE 920
 Session Chair: Dr. Anisul Haque, East West University, Dhaka; Dr. Shaikh Asif Mahmood, BUET

23 December 2022, Friday (10:00-10:15)
Tea Break
Room No: FPGS Complex, 8th Floor, ECE Building

23 December 2022, Friday (10:15-11:45) EEPS 5 - Renewable Energy II Room No: ECE 632 Session Chair: Dr. Nahid Al-Masood, BUET; Dr. Muhammad Abdullah Arafat, BUET	
29	Enhancement of Wind Power Penetration Level: In Perspective of System Strength Adequacy Uddin Ahmed, Shihab; Afrin, Meheraz; Jawad, Aitk*; Masood, Nahid Al
40	Control Based Virtual for Inertial Management Podder, Shuvankar*; Masood, Nahid Al
110	Drong Control Strategy Using Data Emulation for Stability Enhancement of a Microgrid System Hasan, Md. Mahdi*; Abdul Hasib Chowdhury
160	Implementation of a Small-Scale Smart Energy Storage Scheme for Hybrid Renewable Power Sources Islam, Md. Nahid; Amin, Ifre K*; Jaman, Azam; Hasan, Md. Kabir; CHY, MD.MAHFUZUR RAHMAN
170	Application of Thermal Waste-to-Energy in Dhaka City: Benefits, Scope, and Challenges Haque, Md Touhidul*; Arafat, Abdullah
184	Performance Investigation of Onipko Rotor Wind Electric Turbine (ORWT) using Dimensional and Numerical Approach Akbar, Naheen Ibn*; Sagor, Saiful Islam; Ahmed, Sakib
200	Priority Based Hybrid Renewable Energy Monitoring and Management System with SCADA Autonomous Operation Based on Demand Response Ahmed, Iftekhar*; Ahmed, Feroz

23 December 2022, Friday (10:15-11:45) AIBIO 5 - Machine Learning II Room No: ECE 634 Session Chair: Dr. Mohammad Ariful Haque, BUET; Dr. Hafiz Intiaz, BUET	
50	A Machine Learning Based Approach to Analyze Food Reviews from Bengali Text Al Mamun, Md Abdullah*; Haque, Rezaul; Ratul, Mahedi Hassan;
60	Gender-based Cyberbullying Detection for Under-resourced Bangla Language Hossain, Md Azam*; Rahib, Hasnain Karim; Galib, Mostafa; Nobi, akia Mosharraf; Sathi, Tanjilla Alam; Islam, Mohammed Saidul; Kamal, Abu Rahanen Mostafa
141	Efficacy of Transfer Learning Models in Pneumonia Detection with Scarce Local Healthcare Data Sakib, Nazmus*; Rubaiat, Sajratul Yakin; Masud, Raihan; Sarkar, Mamsur; Bepary, Chinmay
156	Hotspot Imagery Based Movement Classification Using Attention Network Integrated Recognition Model Uddin, Mohammad Rakin; Jawad, Aitk*; Mahmud, Talha Ibn
192	Emotion Recognition from EEG with Normalized Mutual Information and Convolutional Neural Network Maria, Mahfuz Akter; Akhand, M. A. H.*; Tetsuya Shimamura,
198	Real-Time Hand-Gesture Recognition for the Control of Wheelchair Huda, Md Rafiqul*; Ali, Md. Liakot; Sadi, Muhammad Sheikh

23 December 2022, Friday (10:15-11:45) EP 5 - Photonics II Room No: ECE 625 Session Chair: Dr. Samia Subrina, BUET; Dr. Aminuzzaman, BUET	
14	A Novel Non-Invasive Method to Measure Glucose Concentration Using Triple Role CSRR Based Sensor Rahman, Mir Md.*; Haidet, Hossain e
61	Dual-Core Antiresonant Fiber Based Wide-band and Compact Polarization Beam Splitter Shaha, Kumary Sumi Rani*; Khaleque, Abul; Hosen, Md. Sarwar
80	Developing a Solar Powered Agricultural Robot for Autonomous Thresher and Crop Cutting Sazid, Mir Mohibullah; Nuhel, Ahsan Kabir*; Haider, Iftekhar; Islam, Shakibul;