

Paper ID	Session	Time & Date	Titles
2	D1P13	09:00 - 10:45 January 7, 2023	Predicting Mushroom Edibility with Effective Classification and Efficient Feature Selection Techniques Morshed, Samin Md.*; Ashraf, Faisal Bin; Islam, Muhammad Usama; Shafi, Md. Shafiur Raihan
3	D1P24	15:30 - 17:00 January 7, 2023	IoT based seat reservation system for university bus with wireless network Eftekhar Alam, Md.eftekhar*; Abdul Kader, Mohammed; Jubida Bahar, Saba; Sultana, Fahima ; Farid , Sahrin; Arefin, Muhammed Nazmul
6	D1P14	09:00 - 10:45 January 7, 2023	Performance Enhancement of Conventional Design of 4-Bit Carry Look-Ahead Adder Joy, Upal Barua*; Chakraborty, Avishek; Sen, Swagata; Das, Arka; Biswas, Preyonti; Tasnim , Afra
7	D1P14	09:00 - 10:45 January 7, 2023	Two-Bit Magnitude Comparator Design Using Gate Diffusion Input Technique and Static CMOS Logic Joy, Upal Barua*; Chakraborty, Avishek; Biswas, Preyonti; Das, Arka; Sen, Swagata; Tasnim , Afra
8	D1P11	09:00 - 10:45 January 7, 2023	Design and Implementation of IoT-Based Load Monitoring and Outage Management System Anwar, Ahmed Muntasir M*; Hazari, Md. Rifat; Mannan, Mohammad Abdul
9	D1P13	09:00 - 10:45 January 7, 2023	A Comprehensive Study of Camouflaged Object Detection Using Deep Learning Bin Khair, Khalak*; Jahir, Saqib ; Ibrahim, Mohammed; Ismail, Fahad Bin
10	D1P21	15:30 - 17:00 January 7, 2023	Fuzzy Logic-Based Design Optimization and Economic Planning of a Microgrid for a Residential Community in Bangladesh Hasan, Sayeed*; Hazari, Md. Rifat; Mannan, Mohammad Abdul
14	D1P12	09:00 - 10:45 January 7, 2023	Performance Analysis of the AVR Using An Artificial Neural Network and Genetic Algorithm Optimization Technique Goswami, Niloy*; Habib, Md. Redowan; Shatil, Abu Hena M; Ahmed, Kazi Firoz
16	D2P14	09:30 - 11:30 January 8, 2023	ELECTRICAL IMPEDANCE MEASUREMENT TECHNIQUE TO DETERMINE THE IMPEDANCE OF A VOLUME CONDUCTOR WITH EMBEDDED OBJECT Mobarak, Mahjabin; Mobarak, Mahjabin*; Moniruzzaman, MD.
21	D2P13	09:30 - 11:30 January 8, 2023	Design and Implementation of Embedded Sensor Network for an Automated Radio Telescope Meah, Kala*; Hake II, Donanl; Babcock, David; Bosse, Eric; Nelson, Blake
22	D1P21	15:30 - 17:00 January 7, 2023	DESIGN OF AN OFF-GRID SOLAR-WIND-BIO HYBRID POWER GENERATION FOR REMOTE AREAS OF CHAPAI-NAWABGONJ DISTRICT IN BANGLADESH USING HOMER Saifullah, Md. Khaled*; Halder, Ratul; Afroz, Shawon; Shatil, Abu Hena M; Ahmed, Kazi Firoz

28	D1P22	15:30 - 17:00 January 7, 2023	Development of a Facial Recognition Robot Noorani, Rafiqul I*
31	D1P13	09:00 - 10:45 January 7, 2023	An Integrated Approach of MCDM Methods and Machine Learning Algorithms for Employees' Churn Prediction Chowdhury , Shefayatuj Johara; Mahi, Mainul Islam*; Saimon, Md. Sadiqul Alam; Nahar, Aynur; Nabil, Rashidul Hasan
37	D1P13	09:00 - 10:45 January 7, 2023	ReChain-A Blockchain Network for Review and Rating System Ahmed, Rayhan; Islam, Md. Sajedul*; Osmani, Sabbir Ahmmed; Shakil, Md. Ahanab; Mazid-Ul-Haque, Md.; Amin, Md.Al-
38	D1P12	09:00 - 10:45 January 7, 2023	Smart Early Flood Monitoring System Using IoT Halder, Ratul ; Yeamin, Md. Hanjala*; Saifullah, Md. Khaled; Hussain, Shihab ; Sharma, Aninda Kumar; Amin, Tanjil
45	D1P11	09:00 - 10:45 January 7, 2023	Design and Analysis of IoT-Based Adaptive Microgrid System including Renewable Energy Sources for Decentralized Zones Deowan, Md. Ether*; Nuhel, Ahsan Kabir; Sazid, Mir Mohibullah; meghla, Rehenuma Tabassum; Haider, Iftekhar; Hazari, Md. Rifat
47	D1P12	09:00 - 10:45 January 7, 2023	Drone-Based, Real-Time Air Pollution Monitoring for Low-Access Areas Using Mobile, Smart Sensing Technology Development Limon, Istiak Ahammad *; Hossain, Ali Daud; Faruque, Khan Farhan Ibne; Uddin, Mohammad Rejwan; Hasan, Mahady
60	D1P24	15:30 - 17:00 January 7, 2023	An IoT Based Smart Vault Security and Monitoring System with Zero UI Chowdhury Joy, Md Hasanuzzaman ; Mohammed Abdul Karim, Mowaz*; Choudhury , Afif H; Razin, Md.; Mithila Ahmed, Sadia Nowrin
76	D2P13	09:30 - 11:30 January 8, 2023	Blockchain Based Secured Refugee Identity Management by Using the Assistance Smart Contract Habib, Ahsan*; Refat, Towsif; Ahad, Md T
78	D1P11	09:00 - 10:45 January 7, 2023	Design and Implementation of IoT-Based Smart Energy Meter to Augment Residential Energy Consumption Midul, Hayat Shahjee*; Pranta, Shahadat ; Biddut, Al Shaharea Islam; Islam, Siam Sifatul; Hazari, Md. Rifat; Mannan, Mohammad Abdul
79	D2P14	09:30 - 11:30 January 8, 2023	Wastewater Microbial Fuel Cell Stack with the Ability of Driving Low Power Electronic Load Joy, Upal Barua*; Uddin , Mohammed Moin; Khan, Nayeem Uddin Ahmed; Banna, Md. Hassannul; Tushar, Shahadat Hosssain; Kabir , Kazi Md Shajedul
80	D2P13	09:30 - 11:30 January 8, 2023	Software Design, Development, and Implementation for an Automated Radio Telescope Franks, Tyler; Hake II, Donanl; Babcock, David; Meah, Kala*; Ullery, Todd; McHugh, David; Herr, Derek

83	D2P24	15:20 - 17:00 January 8, 2023	Effect of Pressure on VTe ₂ /NbTe ₂ Heterostructure in Photonic Applications: A First-Principles Study Afrid, Sheikh Mohd. Ta-Seen*; Kundu, Ratul
84	D2P11	09:30 - 11:30 January 8, 2023	Analysis of a Grid Tie Inverter for attaining the Maximum Power Factor and Minimum Total Harmonic Distortion Salim, Khosru M.; Nayeem, • Sheikh Md.; Nadi, Navila Rahman*; Anik, Zahid Hasan
86	D1P21	15:30 - 17:00 January 7, 2023	Feasibility Analysis of Off-Grid Hybrid Renewable Energy for Rohingya Refugee in Bhasan Char Nuha, Nurjahan Amin; Injam, Md. Tanbir Siddik; Chowdhury, Nusrat*
87	D1P22	15:30 - 17:00 January 7, 2023	Performance Analysis of Load Frequency Control for Power Plants Using Different Optimization Techniques Goswami, Niloy*; Shatil, Abu Hena M
89	D2P23	15:20 - 17:00 January 8, 2023	Intelligent Software Bug Prediction: An Empirical Approach Jahangir, MD. Ariyan*; TAJWAR, MD. ABTAHI; Marma, Wathin; Islam, Siyamul
90	D1P23	15:30 - 17:00 January 7, 2023	Computational fluid dynamics (CFD) analysis of thermoelectric generator for Regenerative Braking of the Hybrid Electric Vehicle Saif, MD. Zilan Uddin*; Ahmed, Md Rasel; Hanif, Md Abu; Tasnim, Farhan; Hossain, Chowdhury Akram A
93	D2P22	15:20 - 17:00 January 8, 2023	A Methodology for Implementing Demand Side Management in a Community Having Both Residential and Commercial Customers Islam, Md. Khairul; Hamim, S. J.*; Dhar, Sraboni; Aziz, Tareq
96	D1P22	15:30 - 17:00 January 7, 2023	DESIGN AND IMPLEMENTATION OF SMART WHEELCHAIR WITH ADVANCED CONTROL INTERFACES Shifa, Shina Mifta; Sagor, Abidur Rahman; Mridul, Towfiq Mahmud*; Monjur, MD. Hasan; Islam, MD. Rokibul; Rafat, Sadman Sakib
101	D2P24	15:20 - 17:00 January 8, 2023	Brain tumor detection by Kapton Polyimide based On Body patch antenna in K band. Eshan, Sumit Hassan*; Hasan, Raja Rashidul; Sarker, Abdullah Al Mamun; Zabin, Sadia; Tusher, Raja Tariqul Hasan; Rahman, Md. Abdur
102	D1P14	09:00 - 10:45 January 7, 2023	Analysis of Layered Shielding for Capacitive Wireless Power Transfer Application Rahman, Minhazur*; Ahmed, Kaushik; Islam Nuhin, Md. Ikramul; Ali, M Tanseer
106	D2P12	09:30 - 11:30 January 8, 2023	A Simulation of a Robot Operating System Based Autonomous Wheelchair with Web based HMI using rosbridge Islam, Md.Touhidul*; Hameem, Imtiaz Reza; Saha, Shuvra; Chowdhury, Mohammad Jamilur Reza; Deowan, Md. Ether

118	D2P23	15:20 - 17:00 January 8, 2023	ConvoWaste: An Automatic Waste Segregation Machine Using Deep Learning Nafiz, MD.Shahariar*
123	D2P22	15:20 - 17:00 January 8, 2023	IoT-Based Automatic Shed System to Prevent Unwanted Rain for Growing Crops REZA, MD. SABBIR *; HOSSEN, MD IMON; Kabir, Shahriar; NILOY, KHALID MAHMUD; Afrose, Sumaiya
126	D2P11	09:30 - 11:30 January 8, 2023	Different Converter Integration and Performance Assessment of a Multi-Stage Transformer Less Grid Tie Inverter Using Thin Film PV Array Sakib, Iftadul Islam; Uddin, Mohammad Rejwan*; Faruque, Khan Farhan Ibne; Al Mamun, Abdullah; Salim, Khosru M.
135	D2P12	09:30 - 11:30 January 8, 2023	Designing of an Autonomous System for Electric Vehicle Mridul, Towfiq Mahmud*; Sagor, Abidur Rahman; Mridha, Faisal Ahmad; Bhuiyan, Md. Mosaraf Hosen; Hasan, Md. jahid; Rahman, Md. Abdur
136	D2P12	09:30 - 11:30 January 8, 2023	IoT Based Air Quality & Noise Pollution Monitoring System DATTA, AMIT; ISLAM, MD.MONJURUL; HASSAN, MD. SABBIR; AKA, KUASHA BOSU; Ahamed, Istiaque*; Ahmed, Abir
139	D2P23	15:20 - 17:00 January 8, 2023	Thermogram-based regions with convolutional neural network (RCNN) and facial biometrics for safe driving Sarkar, Sukanta*; Khayer , Tammat Bin ; Kisan , Nafish Haque ; Uddin, Dr. Mohammad Nasir
140	D2P23	15:20 - 17:00 January 8, 2023	Exploring High-Level Neural Networks Architectures for Efficient Spiking Neural Networks Implementation Islam, Riadul*; Majurski, Patrick; Kwon, Jun; Tummala, Sri Ranga Sai Krishna
141	D1P14	09:00 - 10:45 January 7, 2023	Design and Implementation of a Low-cost Solar Charged Portable Disinfectant Chamber Rofique, Ruham*; Arafat Alif, MD. Yasin ; Himu, Suprio Saha ; Naima, Fahmida Zahin ; Hossain, Chowdhury Akram A
142	D1P12	09:00 - 10:45 January 7, 2023	Single Axis Solar Based Automatic Water Pump Control with Turbidity and pH Measuring Karmarker, Sudipta; Halder Shovo, Shobhasish*
143	D2P24	15:20 - 17:00 January 8, 2023	Success History Moth Flow Optimization for Multi-Goal Generation Dispatching with Nonlinear Cost Functions ALAM, MOHAMMAD KHURSHED*; Sulaiman, Mohd Herwan; Sayem, Md. Shaoran; Ringku, Md Mahfuzer Akter ; Imtiaz, Shahriar; Khan, Rahat
144	D1P24	15:30 - 17:00 January 7, 2023	Lead-free (Na _{0.5} Bi _{0.5}) _{0.45} Ba _{0.40} Sr _{0.15} TiO ₃ ceramic: Preparation, nanostructure, and P-E loop properties Islam, Md. Aliful*; Zubair, Mohammad A
145	D1P24	15:30 - 17:00	Surface Damage Detection of Line Insulators Using Deep Learning Algorithms to Avoid Insulation Failure

		January 7, 2023	Rayhan, K. M.*; Roy, Shuvo Dip; Sadid, Md. Fahimul Haque; Ahmed, Kazi Firoz ; Shatil, Abu Hena M
146	D1P21	15:30 - 17:00 January 7, 2023	An Affordable Solution for the Rural Farmers for Irrigation Purpose Including Hybrid Power Source using Solar and Biogas Jahid, Hasan ; Anik, Asif Iqbal*; Mishu, Suborna Sharmin; Mohajan, Iebho; Hossain, Chowdhury Akram A; Hazari, Md. Rifat; Shikder, Kawshik
148	D2P14	09:30 - 11:30 January 8, 2023	Design and Implementation of Regulated Oxygenation Based ventilation system with Feedback Mechanism Faiz, Rethwan ; Alam, Nuzat Nuary; Arafi, Md Abdullah ; Saha, Ayan; Imam, Dr. Mohammad Hasan*
150	D2P14	09:30 - 11:30 January 8, 2023	Detection of Myocardial Infarction Using Hybrid CNN-LSTM Model Firoz, Muhtasim; Faiz, Rethwan ; Alam, Nuzat Nuary; Imam, Dr. Mohammad Hasan*
155	D2P12	09:30 - 11:30 January 8, 2023	Solar Powered Smart Irrigation System Based on Internet of Things (IoT) Using Microcontroller Niloy, Sifatuzzaman*; Sumona, Fahima Haque; Khan, Mehedi; Islam, Mohammad Zohurul; Ahmad, Shameem; Howlader, Sujan S
158	D2P11	09:30 - 11:30 January 8, 2023	Total Harmonic Distortion Reduction in a Power Grid: A UPQC Based Approach Pathik, Bishwajit Banik*; Islam, Sanjid; Zaman, Md Salman; Akram, Nur Mohammad; Al-Nahian, Md. Abdullah
161	D2P14	09:30 - 11:30 January 8, 2023	Human Lung Non-Invasive Anomaly Detection through UWB Microwave Imaging and Diagnosis of COVID-19: A Possible Application Nuhel, Ahsan Kabir*; Deowan, Md. Ether; Sazid, Mir Mohibullah; Sakib, Najmus; Rahman, Md Eyasin; Amin, Muhammad Al
166	D2P11	09:30 - 11:30 January 8, 2023	Techno-Economic Feasibility Analysis of Hybrid System in Bangladesh – A Case Study for Higher Learning Institution Uddin, Mohammad Rabib *; Shafee, Adnan; Dev, Upama; Ahmad, Shameem; Howlader, Sujan S; Islam, Mohammad Zohurul; Pullock, Meharub Hossain; Khan, Abrar Jahin
167	D1P23	15:30 - 17:00 January 7, 2023	Developent of High Performance Single Inductor Quadratic Multilevel DC- DC Step-Up Converter with MPPT Controller Akter, Khadiza*
175	D1P23	15:30 - 17:00 January 7, 2023	Analytical Comparison of the Impact of Si and GaAs as Materials in Designing 3D Density Gradient Nanowire MOSFET for Low Power Applications Nazreen, Syeda Fahima*; Ali, M Tanseer
177	D1P11	09:00 - 10:45 January 7, 2023	An IoT Based Smart Grid: Peer-to-peer Energy Trading for Electric Vehicles Using M2M Communication Technology Nisat, Asaduzzman Noor; RATUL, MAHIR SHAHRIAR; ASIF, ISHAK AHMED; HASSAIN, HASIBUL; Ahmed, Abir*

179	D1P23	15:30 - 17:00 January 7, 2023	Study of Different Gate Materials on Performance of Si Based MOSFET Mizan, Al Mamun*; Nazreen, Syeda Fahima; Ashraf, Saqlain; Kabir, A. Z. M. Tahmidul; Gomes, John Maxwell; Karmoker, Sristy; Nabil, Nazmus Sakib; Kabiruzzaman, M
181	D2P24	15:20 - 17:00 January 8, 2023	DESIGN AND DEVELOPMENT OF ROBO MEDICAL ASSISTANT HASAN, MD. MAHFUZ*; Shawon, Mr.Mehedi Azad ; Ray, Saikat
188	D2P22	15:20 - 17:00 January 8, 2023	A Smart Helmet: Ensuring Safety Of Bike Riders Riya, Jannatul Ferdous *; Chowdhury, Md. Tanvir Hossain; Usha, Sabrin Akter; Howlader, Sujan S; Ahmad, Shameem; Islam, Md. Zohurul
190	D2P13	09:30 - 11:30 January 8, 2023	Action Recognition Based Real-time Bangla Sign Language Detection and Sentence Formation akash, Shartaz Khan*; Chakraborty, Debobrata; Kaushik, Mehedi Mahmud; Babu, Barsan saha; Zishan, Md. Saniat Rahman
191	D2P21	15:20 - 17:00 January 8, 2023	Smart System To Monitor And Control Transformer Health Condition In Sub-Station Dash, Sagor; DAS, SANJOY; BILLAH, MD.BAKI; DAS, BALARAM; Ahamed, Istiaque*; Ahmed, Abir
196	D1P23	15:30 - 17:00 January 7, 2023	Comparative simulation of GaAs and AlGaAs based on triple Barriers-Resonant tunneling Diode Paul, Rupa*; Mannan, Lamia; meem, tahseen; Hasan, Mehedi
199	D2P21	15:20 - 17:00 January 8, 2023	Prospect of Hybrid Power Generation in Nijhum Dwip Utilizing Renewable Resources Miah, Md Salim*; Choudhury, Irfan Ahmed; Reza, Md. Sharon; Joha, Md. Abdullah Al; Islam, Sayeed; Islam, Dr. Md. Fokhrul
206	D2P14	09:30 - 11:30 January 8, 2023	Design of Industrial Robotic Arm For Surgical Applications Chowdhury, Hafizur Rahman; Hossain, Sarowar; Imam, Dr. Mohammad Hasan*
208	D2P22	15:20 - 17:00 January 8, 2023	Smart Wheelchair for COVID-19 Patients with Mobile Application Based Health Monitoring System Kabir, A. Z. M. Tahmidul*; Mizan, Al Mamun; Saha, Plabon Kumar; Sarowar, Md. Golam ; Saha, Rajat ; Ahmad, Istiak ; Zishan, Md. Saniat Rahman
216	D1P22	15:30 - 17:00 January 7, 2023	Anomaly Detection and Fault Localization for Solar PV System Kabir, Shaharier*; Shufian, Abu; Zishan, Md. Saniat Rahman
219	D1P22	15:30 - 17:00 January 7, 2023	DESIGN AND IMPLEMENTATION OF SMART DRAINAGE SYSTEM FOR BANGLADESH ALAM, MOHAMMAD SHAMIUL ; Sitara, Sawnjida; IRIN, AFROZA SULTANA; Anu, Anika Tabasum; Ahmed, Abir*; Zishan, Md. Saniat Rahman

220	D2P13	09:30 - 11:30 January 8, 2023	Toward a Transfer Learning Approach to Detect Face Mask Type in Real-time Ibnath, Takia ; Dey, Ashim*
221	D2P21	15:20 - 17:00 January 8, 2023	Design and Implementation of a Smart Wind Turbine with Yaw Mechanism . Abhi, Subrotho Bhandari*; Hossain, Md. Ismail; Suny, Rezaul Hoque; Zahura, Fatema Tuz ; Hazari, Md. Rifat; Jahan, Effat; Mannan, Mohammad Abdul
222	D2P22	15:20 - 17:00 January 8, 2023	Design and Development of E-Waste Monitoring, Segregation and Recycling System Roy, Manas Saha ; Lusan, MD. Nazmul Islam; Khan, MD. Ahadur Rahman ; Khan, MD. Parvez ; Ahmed, Abir*; Zishan, Md. Saniat Rahman
224	D2P21	15:20 - 17:00 January 8, 2023	Design and Implementation of Solar PV Operated E-Power Tiller Sagor , Abidur Rahman ; Mridul, Towfiq Mahmud*; Bhuiyan, Md. Mosaraf Hosen ; Mridha, Faisal Ahmad ; Hazari, Md. Rifat; Rahman, Md. Abdur