Final Program

Day-1: February 07, 2019

Time	Events	Location
08:00-09:00	Registration Open & Conference Kit Collection	Hotel Long Beach
09:00-10:20	**Keynote Session A** **Keynote 1:** Prof.Yoshinori Kuno**,** Information Technology for Estimating and Inducing Emotions, Saitama University, Japan **Keynote 2:** Prof.Sheikh Anowarul Fattah, Bangladesh University of Engineering & Technology, Bangladesh	Forum

Technical Session 1A: Power Systems & Smart Grids

Time		Events	Location
10:20-11:20	7167	Electric Power Generation-mix for Bangladesh and Its Future	Forum
	7272	A Novel Modulation Scheme to Improve the Injected Power Quality for Modular Multilevel Medium Voltage Grid Tied Power Converters	
	7387	Empirical Mode Decomposition Based Prony's Method for Fundamental and Harmonics Analysis of Power System	
	7403	A Least Mean Square Algorithm Based Single-Phase Grid Voltage Parameters Estimation Method	
	7652	Continuous Power Flow Analysis for Micro-Generation Integration at LV Voltage Grid	

Technical Session 1B: VLSI & Photonics

	Events	Location
7359	Subthreshold Characteristics of DMDG XOI FinFET	Chorus
7446	Implementation of an XOR based 16-bit Carry Select Adder for Area, Delay and Power Minimization	
7560	Performance Comparison of SMDG and DMDG XOI FET: An Analytical Study	
7803	Permeability Analysis of Pure Water across Nano Porous Graphene	
7890	Effect of the electron blocking layer in dual wavelength emission of InGaN/GaN MQW light Eemitting diodes	

		Technical Session 1C: Algorithms	Club-14
	7345	A Comparison between HTML5 and OpenGL in Rendering Fractal	
	7848	Efficient Hardware Implementation of 256-bit ECC Processor Over Prime Field	
	7413	A Robust Characterized Decimal Data Compression Algorithm by Using Replace Table (CDDC)	
	7447	An Algorithm for l-diversity Clustering of a Point-Set	
	7121	Spider Monkey Optimization to Solve Traveling Salesman Problem	
		Technical Session 1D: Antenna and Microwave	Conclave
	7834	A Star-Fish Shaped Compact Dual band Antenna for Millimeter Wave Band Applications	
	7292	Maximum Energy Efficiency of three Precoding Methods for Massive MIMO technique in Wireless Communication System	
	7755	Design of a Ladybug Shaped Circular Polarized Microstrip Antenna at 5.8 GHz as Microwave Power Transmitter to a MAV	
	7762	Performance Analysis of a Microstrip Patch Antenna for Biomedical Applications	
	7770	Design and Performance Studies of an Elliptical Slot Circular Polarization Antenna for C-Band Wireless Applications	
11:20-11:40		Coffee Break	Barbeque Place
12:00-13:30		Inaugural Ceremony	Forum
13:30-14:30		Prayer & Launch	Barbeque Place
		Technical Session 2A: Renewable Energy	
	7902	Optimization of AlSb Solar Cell to Improve PCE	
	7961	Design of an Efficient Molybdenum Disulfide (MoS2) Solar Cell with Tin Sulfide BSF	
14:30-16:00	7965	Analytical Modeling of Lattice-matched InAlAs/InGaAsP/InGaAs based Multijunction Solar Cell using MATLAB/Simulink	

	7268	Use of Bimetallic Plasmonic Nanoparticle Complexes to Enhance the Efficiency of Thin-Film Solar Cells	
	7346	Use of Hybrid Bow-Tie Based Plasmonic Nanostructures to Enhance the Opto-Electronic Efficiency of Thin-Film Solar Cells	
	7363	Stable and Efficient Perovskite Solar Cell with Metal Oxide Transport Layers	
	7470	Performance Analysis of Perovskite Solar Cells with Different Structures	Forum

Technical Session 2B: Image Processing & Computer Vision

	7685	Design a Secure Voting System Using Smart Card and Iris Recognition	
	7842	Human Detection Based on HOG-LBP for Monitoring Sterile Zone	
	7852	Compression of Large-Scale Image Dataset using Principal Component Analysis and K-means Clustering	
	7922	Zebra-Crossing Detection and Recognition Based on Flood Fill Operation and Uniform Local Binary Pattern	Corus
	7985	Moving Object Detection against Sudden Illumination Change Using Improved Background Modeling	
	7988	Real-Time Distraction Detection Based on Driver's Visual Features	
	7989	Developing a Bidirectional Mutual Gaze Mechanism for Human Robot Interaction	

Technical Session 2C: Natural Language Processing (AI)

	7328	Word Sense Disambiguation of Bengali Words using FP-Growth Algorithm	
	7398	Handwritten Isolated Bangla Compound Character Recognition	
	7499	Bengali VADER: A Sentiment Analysis Approach Using Modified VADER	
	7543	An Approach for Detection and Correction of Missing Word in Bengali Sentence	Conclave
	7577	Continuous Bengali Speech Recognition Based On Deep Neural Network	
	7735	Effects of Different coefficients on MFCC and PLP for Bangla Speech Corpus using Tied-state Triphone Model	
	7821	Suffix Based Automated Parts of Speech Tagging for Bangla Language	

16:00-16:15		Coffee Break	Barbeque Place
16:15-16:45		**Invited Session A** **Invited Talk 1:** Prof. Dr. Celia Shahnaz **Title:** Audio Visual Emotion Recognition Using Cross Correlation and Wavelet Packet Domain Features Bangladesh University of Engineering & Technology, Bangladesh	Forum
16:45-17:45		**Technical Session 3A: Image Processing & Computer Vision**	Forum
	7196	Integer Wavelet Transform Based Medical Image Watermarking for Tamper Detection	
	7401	Digital Watermarking Using Discrete Wavelet Transform and Eigen Decomposition	
	7415	Image Compression with Reversible Image Watermarking Scheme Based on Non-subsampled Contourlet Transform and Singular Value Decomposition	
	7204	Feature Reduction Based on Segmented Principal Component Analysis for Hyperspectral Images Classification	
	7492	An Efficient Mask Generation Method for Moving Object Detection in Atmospheric Imaging	
		Technical Session 3B: Power Electronics & Semiconductor Devices	Chorus
	7476	Analysis of the impact of Electric Vehicle charging station on power quality issues	
	7641	Performance Analysis of a PMBLDC Motor Drive based on ANFIS Controller and PI Controller	
	7717	Design and Implementation of IGBT Based High Frequency Output Cyclo-Inverter Prototype	
	7791	Eliminating Frequency Deviation and Restoring Terminal Voltage of an Electric Power Generating Unit using Model Predictive Control	
	7218	Study the Ohmic Contact to p-InGaN Using MIGS Model	
		Technical Session 3C: Power Systems & Smart Grids	Club-14
	7739	Determination of Module Rearrangement Techniques for Non-uniformly Aged PV Arrays with SP, TCT, BL and HC Configurations for Maximum Power Output	

	7883	Use of High Flux Density Ferromagnetic Cores in Linear Generators for Oceanic Wave Energy Conversion	
	7906	Model Predictive Control Framework Design for Frequency Regulation of PHEVs Participating in Interconnected Smart Grid	
	7179	Reduced model-based feedback stabilization of large-scale sparse power system model	
	7908	Yttrium Barium Copper Oxide Superconductor Used in a Linear Generator for High Power Generation from the Oceanic Wave	
		Technical Session 3D: Software Engineering and ICT	Conclave
	7317	Rule Induction and Prediction of Chronic Kidney Disease Using Boosting Classifiers, Ant-Miner and J48 Decision Tree	
	7427	A Comparative Analysis of General, Sieve-of-Eratosthenes and Rabin-Miller Approach for Prime Number Generation	
	7818	Revisiting the Class Imbalance Issue in Software Defect Prediction	
	7901	Comparative Study among Scrum, Kanban and XP Centered on Their Practices	
	7945	An Approach to Enhance Performance and Qualitative Analysis of Routing Protocols on IPv6	
17:45~19:00		**Technical Session 4A: AI and Robotics**	
	7141	Design and Actualise the Bengali Consonant with Appropriate Appearances in the Segmented Display System	Forum
	7422	Database Independent Analysis of Adverse Events Using Rule-Based Systems	
	7869	Identifying Neuroticism from User Generated Content of Social Media based on Psycholinguistic Cues	
	7756	Detection of Effective Temporal Window for Classification of Motor Imagery Events from Prefrontal Hemodynamics	
	7487	Temperature Sensed Obstacle Avoiding Robot	
	7472	Identification of Drop Out Students Using Educational Data Mining	
		Technical Session 4B: Machine Learning	Chorus
	7553	Efficient Mental Arithmetic Task Classification using Wavelet Domain Statistical Features and SVM Classifier	

	7570	Fault Diagnosis of Induction Motor Bearing Using Cepstrum-based Preprocessing and Ensemble Learning Algorithm	
	7745	Design an Empirical Framework for Sentiment Analysis from Bangla Text using Machine Learning	
	7816	A Machine Learning Approach to Predict Autism Spectrum Disorder	
	7846	Classification of sports videos with combination of deep learning models and transfer learning	
	7706	A New Crossover Technique to Improve Genetic Algorithm and its Application to TSP	
	Technical Session 4C: Digital System		Club-21
	0007	GSM Based Low-cost Gas Leakage, Explosion and Fire Alert System with Advanced Security	
	7254	An Efficient Design of 4 - to - 2 Encoder and Priority Encoder Based on 3-dot QCA Architecture	
	7188	Efficient FPGA Implementation of Modular Arithmetic for Elliptic Curve Cryptography	
	7298	A Four-element Compact Wideband MIMO Antenna for 5G Applications	
	7767	Talking vs Non-Talking: A Vision Based Approach to Detect Human Speaking Mode	
	7861	Demand Analysis of CSE Graduates of Different Universities in Job Markets	
	7895	Adapting SCRUM in Data Analytics Solution Development for Telecom Operators in Bangladesh	
	Technical Session 4D: Bioinformatics		Conclave
	7294	Dynamically Configurable Architecture for User Identification and Authentication for Internet of Things Platform	
	7484	Influential Gene Identification for Cancer Classification	
	7434	Prediction of Lysine Glycation PTM site in Protein using Peptide Sequence Evolution based Features	
	7942	A novel gene-tree based approach to infer relations among disease-genes across different cancer types	
	7441	An Expert Multi-Modal Biometric System Based on Feature Level Fusion of Iris & Retina Recognition for Person Authentication	
	7973	Active Contour based Segmentation of ROIs in Medical Images	

Poster Session

Day-1, Thursday (07 February 2019)
Venue: Forum
Time: 14:00~16:00

Technical Session P2A: Renewable Energy	
7312	A Modified Incremental Conductance Based Photovoltaic MPPT Charge Controller
7187	A Review of Cross Country Generation Mix – Opportunities and Challenges: Bangladesh, Australia, and the U.S.A Perspectives
7473	Challenges for Electric Vehicle adoption in Bangladesh
7964	Design and Numerical Analysis of Efficient Gallium Arsenide Solar Cell with Graphene as Window Layer Material
7966	Optimization of Lead Sulfide (PbS) Solar Cell
Technical Session P2B: Biomedical Engineering	
0011	Protein Similarity Analysis by Wavelet Decomposition of Cellular Automata Images
7287	A Machine Learning Approach for Heart Rate Estimation from PPG Signal using Random Forest Regression Algorithm
7458	Metabolomic Biomarker Identification for Lung Cancer By Combining Multiple Statistical Approaches
7465	An Approach to Estimate the Activation of Different Bands of EEG Signal using Classified Songs
7508	Risk Prediction of Ischemic Heart Disease Using Artificial Neural Network
7534	Optimization of Features for Classification of Parkinson's Disease from Vocal Dysphonia
7974	Development of Automated Brain Tumor Identification Using MRI Images
7374	Runtime Optimization of Identification Event in ECG Based Biometric Authentication
Technical Session P2C: DBMS and Data Mining	
7683	Comparative Analysis of Mining Fuzzy Association Rule using Genetic Algorithm
7371	Performance Analysis of Classical and Evolutionary Algorithms for Mining Association Rules
7923	Exploring Significant Family Income Ranges of Career Decision Difficulties of Adolescents In Bangladesh Applying Regression Techniques
7493	A Framework for Implementing Join Operation between Multiple MOLAPs
7614	Optimization of Multimodal Benchmark Functions Using Fish Cooperative Hunting Behaviors

Technical Session P2D: Power System and Smart Grid

7203	Scenario of Power Generation-Mix in Bangladesh and Australia
7606	Feasibility Analysis and a Proposal for 1.3 MW Hybrid Renewable Power Plant for Saint-Martins Island Using HOMER
7632	Analysis of Electromagnetic Induction due to Lightning on Large Scale Solar Power Generation
7211	Current THD Analysis of Model Predictive Control based Grid-Connected PV Inverter
7357	Generators response during first ever FGMO Trial for frequency regulation in Bangladesh Power System
7510	Electric Load Forecasting with Hourly Precision Using Long Short-Term Memory Networks
7564	Modelling and Optimization of Hybrid Power System At Coastal Area
7644	Design and Implementation of Smart Meter with Load Forecasting Feature for Residential Customers

Technical Session P2E: Software Engineering and ICT

7176	An Efficient Algorithm for Confidentiality, Integrity and Authentication Using Hybrid Cryptography and Steganography
7474	Understanding the Security Threats of Esoteric Subdomain Takeover and Prevention Scheme
7500	A Novel Approach of Fair Scheduling to Enhance Performance of Hadoop Distributed File System
7820	Using Change Coupled Clusters at Fix-inducing Changes for Analyzing Corrective Maintenance History
7828	Design and Implementation of Women Auspice System by Utilizing GPS and GSM
7583	Designing a Hierarchical Keyboard Layout for Brain Computer Interface Based Text Entry
7932	Measuring Vulnerabilities of Bangladeshi Websites
7282	Security Study of 5G Heterogeneous Network: Current Solutions, Limitations & Future Direction
7763	Implementation of Security Enhanced Image Steganography with the incorporation of Modified RSA Algorithm

Technical Session P2F: AI, Robotics and Machine Learning

7118	Sentiment Analysis Using Out of Core Learning
7210	Voice Recognition based Intelligent Wheelchair and GPS Tracking System
7273	WALGES: Weighted Probability Based Scoring Approach for Solving Algebraic Word Problems using Semantic Parsing
7286	CPG-Based Industrial Manipulators on AVR System for PTP Applications
7311	Predicting Electric Energy Use of a Low Energy House: A Machine Learning Approach

7128	Classification on BDHS data analysis: Hybrid approach for predicting pregnancy termination
7262	A Microcontroller Based Missing Heartbeat Detection And Real Time Heart Rate Monitoring System
7366	A Recommender System Based on Deep Neural Network and Matrix Factorization for Collaborative Filtering
7384	Tuning Distance Metrics and K to Find Sub-categories of Minority Class from Imbalance Data Using K Nearest Neighbours
7498	Multilingual Text Categorization of Indo-Aryan Languages
7523	A Phrase-Based Machine Translation from English to Bangla Using Rule-Based Approach
7546	Memristor-CMOS Hybrid Implementation of Leaky Integrate and Fire Neuron Model
7645	Amphibious Line following Robot for Product Delivery in Context of Bangladesh
Technical Session P2G: Image Processing and Computer Vision	
7250	hLGP: A Modified Local Gradient Pattern for Image Classification
7394	Convolutional Neural Networks based multi-object recognition from a RGB image
7468	A study on Human Activity Recognition Using Gyroscope, Accelerometer, Temperature and Humidity data
7519	A Low-cost Image Processing Based Technique to Estimate Chlorophyll in Winter Wheat
7527	A New Image Despeckling Method by SRAD Filter and Wavelet Transform Using Bayesian Threshold
7528	A New Method for Lung Nodule Detection Using Deep Neural Networks for CT Images

Day-2: February 08, 2019			
Time	**Events**		**Location**
08:00-09:00	Registration Open & Conference Kit Collection		Hotel Long Beach
09:00-10:20	**Keynote Session B**		Forum
	Keynote 3: Prof. Dr. Kanghyun Jo**,** Computer Vision for Human Supportive Technology,University of Ulsan, Korea		
	Keynote 2: Prof. Dr. Mohammad Tariqul Islam,Planar Antenna: Pathways to Miniaturization for Sensing and Communication Technology, UniversitiKebangsaan, Malaysia		
10:20-11:20	**Technical Session 5A: Digital Signal Processing**		Forum
	7501	Performance Analysis of Frequency and Graph Theoretic Based Text Summarization	
	7633	Frequency Domain Approach in CSP based Feature Extraction for EEG Signal Classification	
	7664	Applying Brain-Computer Interface Technology for Evaluation of User Experience in Playing Games	
	7206	Indices prediction of Bangladeshi stock by using time series forecasting and performance analysis	
	7488	Limitation of ARIMA in extremely collapsed market: A proposed method	
	Technical Session 5B: Power Electronics & Semiconductor Devices		Chorus
	7304	Numerical Analysis of Gain and Amplified Spontaneous Emission Characteristics in an Erbium Doped Fibre under 830 nm Pump	
	7329	Capacitance-Voltage characteristics of 2D material based XOI FET	
	7667	An Investigation on DC Motor Braking System by Implementing Electro-magnetic Relay and Timer	
	7130	Metal Gate Work Function Engineering: Sub-Nano Regime Double Gate MOSFETs	
	7419	Projected Performance of GaN-based Double Gate-Junctionless (DG-JL) MOSFET	
	Technical Session 5C: Machine Learning		Club-14
	7954	Analysis and Detection of Malware in Android Applications Using Machine Learning	

	7670	Performance Analysis of Machine Learning Techniques to Predict Diabetes Mellitus	
	7665	A Framework for Analyzing Real-Time Tweets to Detect Terrorist Activities	
	7681	Detection of fake online reviews using semi-supervised and supervised learning	
	7370	Prediction of Preferred Personality for Friend Recommendation in Social Networks using Artificial Neural Network	
		Technical Session 5D: Biomedical Engineering	Conclave
	7738	An Efficient Technique for Detection and Enhancement of Blood Vessels from Cardiac MRI	
	7891	Towards the Effective Intrinsic Mode Functions for Motor Imagery EEG Signal Classification	
	7400	Automated Prediction of Heart Disease Patients using Sparse Discriminant Analysis	
	7609	An Improved Interpolation based Reversible Data Hiding for Medical Images	
	7635	Prediction of Possible Asthma Attack From Air Pollutants: Towards a high density air pollution map for smart cities to improve living	
11:20-11:40		**Coffee Break**	Barbeque Place
11:40-12:30		**Keynote Session C**	Forum
		Keynote 5: Dr. Nazmul Siddique, Dialectics of Nature: New Approaches to Computing, Ulster University, United Kingdom	
12:30-14:30		**Launch& Prayer**	Barbeque Place
14:30-16:00		**Technical Session 6A: Digital Signal Processing**	Forum
	7495	Grant Allocation Scheme with Void Filling Principle in the Multi-thread Polling based DBA Algorithm for the LR-PON Systems	
	7798	P300 Speller Based ALS Detection Using Doubechis Wavelet Transform in Electroencephalograph	
	7862	Predicting Speech Intelligibility with the Regeneration of Envelope from TFS Cues for Hearing Impaired Listeners	
	7566	Speech Enhancement Using Convolutional Denoising Autoencoder	

	7788	A Real-time Emotion Recognition from Speech using Gradient Boosting	
	7843	High Performance Controller Design Using Linear Matrix Inequalities for Pitch Angle Regulation of Aircraft	
	7509	Seasonal dependency analysis of Tasseled Cap components for KOMPSAT-3 data in Land Cover Classification	
	Technical Session 6B: Neural Network		Corus
	7466	HOG and Gabor Filter Based Pedestrian Detection using Convolutional Neural Networks	
	7483	Combining Deep Convolutional Neural Network with Support Vector Machine to Classify Microscopic Bacteria Images	
	7594	Emergency Vehicle Detection on Heavy Traffic Road from CCTV Footage Using Deep Convolutional Neural Network	
	7894	Automatic Recognition of Guava Leaf Diseases using Deep Convolution Neural Network	
	0010	Multi-View 3D Object Retrieval using Autoencoder & Deep Embedding Network	
	7172	Bangla Handwritten Digit Recognition Using Novel Deep Convolutional Neural Network Architecture	
	7444	An Easy Approach to Develop a Digital Blood Pressure Meter	
	Technical Session 6C: Communication Signal Processing		Conclave
	7147	Performance of MWSAC-OCDMA Considering the Effects of Fiber FWM and Dispersion	
	7300	Investigate the Dominating Factor of Hybrid SWIPT Protocol by Performance Analysis of the Far User of Hybrid SWIPT based CNOMA Downlink Transmission	
	7379	A Statistical Analysis of Channel Modeling for 5G mmWave Communications	
	7456	Birefringent Microstructure Optical Fiber Based Plasmonic Bio-sensor	
	7590	ANFIS based Trust Management Model to Enhance Location Privacy in Underwater Wireless Sensor Networks	
	7324	Low Loss and Dispersion Flattened Single Mode Microstructure Fiber in Terahertz Regime	
	7732	Reducing Content Discovery Delay in Named Data Networks	
16:00-16:15		Coffee Break	Barbeque Place

		Invited Session B	
16:15-17:45	**Talk 2**	Prof. Dr. Md. Atiqur Rahman Ahad, Video- and Sensor-based Activity Analysis, Osaka University, Japan	Forum
	Talk 3	Daigo Muramatsu, Silhouette-based Gait Recognition from Image Sequences with Occlusion, Osaka University, Japan	
	Talk 4	ASM Abdul Motin, Challenges and expectations in academia and business industry, Chairman, GRAM Limited, Bangladesh	
17:45~18:30		**Free Time**	
18:30-20:00		**Closing & Award Ceremony**	Forum
20:00-22:00		**Conference Banquet & Cultural Nights**	Forum

Poster Session 2

Day-2, Friday (08 February 2019)
Venue: Forum
Time:

Technical Session P6A: VLSI and Photonics	
7880	Low-Loss and Highly Birefringent Zeonex Based Rectangular-Core Terahertz Fiber
7404	Effect of Finite Length on the Band gap of Semiconducting and Metallic Carbon Nanotube
7522	Investigation of the photodegrading performance of Textile Azoic Dye: TiO2 Nanotubes with various water content in electrolyte
7967	MOS Capacitance Based 3-Stage Current Starved Ring VCO for Wireless Applications
7191	Extremely Low and Compressed Soliton Generation in Hyperbolic Decreasing Dispersion Fiber
7205	Highly Nonlinear Dispersion Compensating Octagonal Photonic Crystal Fiber: Design and Analysis
Technical Session P6B: Renewable Energy	
7694	Comparative Study of Levelized Cost of Electricity (LCOE) for Concentrating Solar Power (CSP) and Photovoltaic (PV) Plant in the Southeastern Region of Bangladesh
7723	A New Multilevel Inverter with Low TSV and Lesser Number of Switches for Renewable Energy Systems
7729	Simulation based Investigation of Inverted Planar Perovskite Solar Cell with All Metal Oxide Inorganic Transport Layers

7757	Effect of Cd1-xZnxS window layer incorporation in CdTe Solar Cell by Numerical Simulation
7840	Affordable Electricity for Bhashan Char from Renewable Energy
7879	Deposition of CdS Thin Film by Thermal Evaporation
7962	Modelling and Optimization of Highly Efficient FeS2 Solar Cell
Technical Session P6C: Digital Signal Processing	
7554	MRI Watermarking Technique Using Chaotic Maps, NSCT and DCT
7627	Wavelet Analysis Based Classification of Emotion from EEG Signal
7267	Autocorrelation Based Double Talk Detection System with an NLMS Acoustic Echo Canceler
7417	A Robust Text Dependent Speaker Identification Using Neural Responses from the Model of the Auditory System
Technical Session P6D: Antenna, Microwave and Wireless Communication	
7462	On Efficient Selection and Orientation of Directional Sensors in Visual Sensor Networks
7708	A Study on the Performance of Delay-Tolerant Network Routing Protocols in the Campus Area of Rajshahi University, Bangladesh
7718	Analysis on Novel Metamaterial Resonator: A Critical Study to Enhance the Performance by Tuning Parameters
7698	A Circularly Polarized Implantable Wideband Antenna for Bio-Telemetry Applications
Technical Session P6E: Power Electronics and Semiconductor Device	
7690	An efficient model reduction strategy for discrete-time index-2 descriptor control systems
7727	Modeling and Designing a Genetically Optimized PID Controller for Separately Excited DC Motor
7865	Microcontroller Based Optical Switch and Regulator for Home Applications
7774	Performance Analysis of Modified Three Phase Buck AC Voltage Regulator
7539	Design, Improvement & Analysis of Solar Based Three-Stage Interleaved Boost Converter for BLDC Motor
7603	A Novel Single Phase Multilevel Inverter Topology with Reduced Number of Switching Elements and Optimum THD Performance
7638	Design and Implementation of Raspberry Pi Based Real time Industrial Energy Analyzer : High power application
Technical Session P6F: Cloud, Big-Data and IOT	
7561	A Supervisory Control of Home Appliances using Internet of Things
7659	DistBlackNet: A Distributed Secure Black SDN-IoT Architecture with NFV Implementation for Smart Cities
7796	Weather Independent Positioning of MS Using Power Slope Patterning Algorithm via One BS

7490	Design and Implementation of SENSEPACK: An IoT Based Mushroom Cultivation Monitoring System
7224	A Narrative Analysis on Deep Learning in IoT based Medical Big Data Analysis with Future Perspectives
7584	A Comparative Analysis of Traditional and Modern Data Compression Schemes for Large Multi-Dimensional Extendible Array
7779	A Novel Approach for Client Side Encryption in Cloud Computing
7804	Looking Behind the Mask: A framework for Detecting Character Assassination via Troll Comments on Social media using Psycholinguistic Tools
7802	Designing and Implementation of a Wireless Gesture Controlled Robot for Disabled & Elderly People

Technical Session P6G: Power System and Smart Grid

7776	An Optimal Control of Three Phase Islanded Microgrid System
7777	An Outlook over Electrical Energy Generation and Mixing Policies of Bangladesh to Achieve Sustainable Energy Targets -Vision 2041
7786	A Greener Approach to Harvest Energy using Piezo-Speed Breaker
7822	A Modified PLL Based on Second Order Generalized Integrator for Single-Phase Voltage System
7868	Fast Formation of Tubular Plate Deep Cycle Lead Acid Battery by Acid Recirculation System (ACS)
7990	Energy Mixing in Bangladesh - Present Status and Future Scenario for Sustainable Development
7726	Towards Blockchain-based Electricity Trading System and Cyber Resilient Microgrids

Technical Session P6H: AI, Robotics and Machine Learning
Session Chair: , Bangladesh
Session Co-chair:

7582	A New Hybrid Intelligent GAACO Algorithm for Automatic Image Segmentation and Plant Leaf or Fruit Diseases Identification Using TSVM Classifier
7687	An Optimization Approach to Improve Classification Performance in Cancer and Diabetes Prediction
7710	RFM Based Market Segmentation Approach Using Advanced K-means and Agglomerative Clustering: A Comparative Study
7753	Handwritten Bangla Numeral and Basic Character Recognition Using Deep Convolutional Neural Network
7760	PID-SMC controller for a 2-DOF Planar Manipulator
7783	Empirical Study on Personality Trait Classification by Food Related Preferences
7814	Bangladeshi Post Office Automation System Using Neural Network
7825	Design & Implementation of a Microcontroller Based Low Cost DTMF Controlled Acoustic & Visual Detecting Robot to Monitor Child & Aged Person
7829	Design and Implementation of a Microcontroller Based Low Cost Computer Numerical Control (CNC) Plotter using Motor Driver Controller

7836	Analyzing Performance of Different Machine Learning Approaches With Doc2vec for Classifying Sentiment of Bengali Natural Language
7858	A Color and Texture Based Approach for the Detection and Classification of Plant Leaf Disease Using KNN Classifier
7892	Manipulation and Analysis of a 4-DOF Robotic Arm using a peer-peer messaging system
7903	Voice, Gesture and IR Remote Controlled Alphabet Learning Display for Kids Based on 16X16 LED Dot Matrix Display.
7911	Boosting Neuro Evolutionary Techniques for Speech Recognition
7944	Knowledge Extraction from Bangla Documents using NLP: A Case Study
7318	Species Identification using DNA Barcode Sequences through Supervised Learning Methods
Technical Session P6I: Image Processing and Computer Vision
7704	A Comparison of Supervised and Unsupervised Dimension Reduction Methods for Hyperspectral Image Classification
7747	Two handed Bangla Sign Language recognition using Principal Component Analysis (PCA) and KNN algorithm
7754	Rotation Independent Digit Recognition in Sign Language
7806	Robust Face Detection Using Hybrid Skin Color Matching under Different Illuminations
7877	Brain fMRI Image Classification and Statistical Representation of Visual Objects.
7886	User Association for Efficient Utilization of Green Energy in Cloud Radio Access Network