

# IEEE R10-HTC 2017

## Final Technical Program Schedule (15 Dec 17)

21 December 2017 Thursday

Start 8:00 AM	<b>Registration</b> (8AM-10:45 AM, 2-3:30 PM, 6 PM-8 PM) <b>R10-HTC Authors</b> , interested to join <b>R10-Tracks</b> , need to register before 10:45 AM. For pre-registration contact <a href="mailto:info@r10htc2017.com">info@r10htc2017.com</a>
8:30A-10:45A	<b>Project Area: IHTPC-Project Showcasing:</b> 40 selected projects will be presented <b>Room 6: R10-Hackathon:</b> Interested participants will be given a task to implement
10:45A-11:00A	Tea Break
11:00A-01:00P	<b>Room 1: IHTPC-Talks:</b> Keynote Talks in HTA with open forum discussion <b>Room 2: R10-SAC Track-I:</b> Student volunteers involved in SBs can learn & interact <b>Room 3: R10-WIE Track-I:</b> Interactive sessions with invited talks <b>Room 4: R10-IAC Track-I:</b> Industry leaders will share challenges & expectations <b>Room 5: R10-EAC Track-I:</b> Educational activities/tools - benefit to teachers/students <b>Room 6: R10-MDC Track:</b> Membership development activities- benefit to teachers/students
01:00P-2:00P	Lunch Break
02:00P-03:45P	<b>Room 1: R10-HTA Track:</b> Invited Talks and some selected project presentation <b>Room 2: R10-SAC Track-II:</b> Student volunteers involved in SBs can learn & interact <b>Room 3: R10-WIE Track-II:</b> Interactive sessions with invited talks <b>Room 4: R10-IAC Track-II:</b> Industry leaders will share challenges & expectations <b>Room 5: R10-EAC Track-II:</b> Educational activities/tools - benefit to teachers/students <b>Room 6: IEEE Society Track:</b> Updates from IEEE major societies
03:45P-04:00P	Tea Break
04:00P-05:00P	<b>Inaugural Ceremony</b>
05:00P-06:00P	<b>Keynote Talks</b>
06:00P-07:00P	<b>Welcome Reception</b>

**22 December 2017 Friday**

Start 8:00A	Registration (8-9A, 10-11A, 3-4P)
<b>8:45A-10:15A</b>	<b>Tech Sessions (T1: Room 1-7)</b>
10:15A-10:30A	Tea Break
<b>10:30A-11:45A</b>	<b>Tech Sessions (T2: Room 1-7)</b>
11:45A-12:45P	<b>Keynote Talks</b>
12:45P-2:00P	Lunch Break
<b>02:00P-3:15P</b>	<b>Interactive Poster Presentation (P1)</b>
3:15P--3:30P	Tea Break
<b>03:30P-5:00P</b>	<b>Tech Sessions (T3: Room 1-7)</b>
<b>5:00P-6:30P</b>	<b>Keynote Talks</b>
6:30P-7:00P	Networking
<b>7:00P-9:00P</b>	<b>Award Ceremony &amp; Conference Dinner</b>

**23 December 2017 Saturday**

Start 8:00A	Registration (8-9A, 10-11A)
<b>8:45A-10:30A</b>	<b>Tech Sessions (T4: Room 1-7)</b>
10:30A-10:45A	Tea Break
<b>10:45A-11:45A</b>	<b>Keynote Talks</b>
<b>11:45A-1:00P</b>	<b>Interactive Poster Presentation (P2)</b>
1:00P-2:00P	Lunch Break
<b>02:00P-3:30P</b>	<b>Room 1: R10-YP: Interactive sessions with invited speakers</b> <b>Room 2: R10-SPC: Strategic planning for entrepreneurship</b>
3:30P--3:45P	Tea Break
<b>03:45P-5:15P</b>	<b>Room 3: IEEE SIGHT: Workshop on humanitarian project management</b> <b>Room 4: R10-IBS: Introducing IEEE benefit and services those are available</b>
<b>05:15P-06:00P</b>	<b>Closing and Best Presentation Award</b>

## Community Needs and Environment (CNE)

**T1-Room 1: 22 December 2017 Friday 8:45A-10:15A**

### Community Needs and Environment (CNE-I)

ID	Paper Title
21276	Impacts of Land Use and Land Cover Change on Surface Temperature in the North-West Region of Bangladesh
21162	Prototyping Crop-Coefficient-Aware Smart Irrigation System for Rwanda's "Akarima k'igikoni" campaign
21288	Evaluating Different Salinity Indices for Soil Salinity Mapping of Coastal Region of Bangladesh
21232	Effect Of Vegetation In Rural Transmission Networks
21467	Modern Sanitation Technologies for Smart Cities

**T2-Room 1: 22 December 2017 Friday 10:30A-11:45A**

### Community Needs and Environment (CNE-II)

ID	Paper Title
21325	Photoplay: An Android Application to Stimulate Children's Cognitive Development
21156	A Smart Technology Enabled Knowledge Society- interfaced with the Industry Academia Innovation Platform
21361	Casualty Reduction Intelligent System (CRIS) Based on Classified Prediction & Comparative Analysis of Industrial Mishaps
21220	A Multi-Objective Post-Disaster Relief Logistic Model
21253	Two Stages Post-Disaster Humanitarian Logistics

**T4-Room 1: 23 December 2017 Saturday 8:45A-10:30A****Community Needs and Environment (CNE-III)**

ID	Paper Title
21109	Integrated Rescue Group for Disaster Management
21124	Evidence of El Niño–Southern Oscillation Influence Over The Tropical Glaciers in The Santa River Basin During The Period 2001-2016
21155	Snow Cover Variation in Santa River Basin and Its Relation to Sea Surface Temperature Anomaly in the Pacific Ocean During The Period 2003-2016
21296	A Survey on Visibility Enhancement Techniques in Degraded Atmospheric Outdoor Scenes
21459	Generating Proactive Humanitarian Aid Networks with Guided Topology and Small-World Effect
21297	Micro-level Meteorological Data Sourcing for Accurate Weather Prediction

**Humanitarian Challenges (HUM)****T1-Room 3: 22 December 2017 Friday 8:45A-10:15A****Humanitarian Challenges (HUM-I)**

ID	Paper Title
21122	FoodAlytics: a Formalin Detection System Incorporating a Supervised Learning Approach
21197	Design and Development of a Persuasive Technology Method to encourage Smart Farming
21320	Optimal Control Strategies Applied to Reduce the Unemployed Population
21322	Image-Based Automated Haze Removal Using Dark Channel Prior
21474	BONITAA: A Smart Approach to Support the Female Rape Victims

**T2-Room 3: 22 December 2017 Friday 10:30A-11:45A****Humanitarian Challenges (HUM-II)**

<b>ID</b>	<b>Paper Title</b>
21478	MQTT based Air Quality Monitoring
21493	Robust Single Finger Movement Detection Scheme for Real Time Wheelchair Control by Physically Challenged People
21346	Implementing and Testing an Ultrasonic Sensor based Mobility Aid for a Visually Impaired Person
21326	R3Arm:Gesture Controlled Robotic Arm for Remote Rescue Operation
21176	Optimized Route Planner Application

**T3-Room 3: 22 December 2017 Friday 3:30P-05:00P****Humanitarian Challenges (HUM-III)**

<b>ID</b>	<b>Paper Title</b>
21100	A Communication Platform Between Bangla and Sign Language
21333	Android Based Heart Rate Monitoring and Automatic Notification System
21338	Design and Implementation of a Cyber-Vigilance System for Anti-Terrorist Drives Based on an Unmanned Aerial Vehicular Networking Signal Jammer for Specific Territorial Security
21423	License Plate Recognition System Based On Contour Properties and Deep Learning Model
21496	Design of a Low Cost Anti-Theft Sensor for Motorcycle Security Device

## Healthcare and Biomedical Engineering (BIO)

T1-Room 2: 22 December 2017 Friday 8:45A-10:15A

### Healthcare and Biomedical Engineering (BIO-I)

ID	Paper Title
21158	A Novel Non-Invasive Wearable and Self-Powered Respiratory Monitoring System
21456	Energy-Efficient Transport Layer Protocol for Hybrid Communication in Body Area Nanonetworks
21465	Detection of Anemia from Image of the Anterior Conjunctiva of the Eye by Image Processing and Thresholding
21476	An Asymmetric Indexed Image Based Technique for Automatic Ulcer Detection in Wireless Capsule Endoscopy Images
21537	Towards High-Resolution Brain-Chip Interface and Automated Analysis of Multichannel Neuronal Signals

T2-Room 2: 22 December 2017 Friday 10:30A-11:45A

### Healthcare and Biomedical Engineering (BIO-II)

ID	Paper Title
21243	EEG Based Biometrics Using Emotional Stimulation Data
21301	Epileptic Seizure Detection Using Correlation Dimension, Lempel-Ziv Complexity and Geometric Features
21353	A Novel Humanitarian Technology for Early Detection of Cervical Neoplasia: ROI extraction and SR detection
21399	cMEM-based Motor Imagery Induced Cortical Source Localization for Computationally Efficient Brain Computer Interface
21508	An Automated Method for Brain Tumor Segmentation Using Cancerous Hemisphere Identification

**T2-Room 7: 22 December 2017 Friday 10:30A-11:45A****Healthcare and Biomedical Engineering (BIO-III)**

<b>ID</b>	<b>Paper Title</b>
21157	Implementation of surgical robot instrument with a force feedback
21195	WIRELESS HEAD GESTURE CONTROLLED WHEEL CHAIR FOR DISABLED PERSONS
21239	Towards Developing Walking Assistants for the Visually Impaired People
21255	Design of an Arduino Based Voice-controlled Automated Wheelchair
21269	Voice and EMG Signal based Low-Cost Automated Assistive Arm

**T3-Room 1: 22 December 2017 Friday 3:30P-05:00P****Healthcare and Biomedical Engineering (BIO-IV)**

<b>ID</b>	<b>Paper Title</b>
21106	ECG signal Compression using Data Extraction & Truncated Singular Value Decomposition
21117	Fractal Feature Based Early Breast Abnormality Prediction
21235	Prediction of Breast Cancer Using Support Vector Machine and K-Nearest Neighbors
21336	Detection of Cardiac Disorder using MATLAB based Graphical User Interface (GUI)
21470	Detection of Inferior Myocardial Infarction using Shallow Convolutional Neural Networks
21477	An Automatic Atrial Fibrillation Detection Scheme Based on Statistical Features from Electrocardiogram Signals

**T3-Room 2: 22 December 2017 Friday 3:30P-05:00P****Healthcare and Biomedical Engineering (BIO-V)**

<b>ID</b>	<b>Paper Title</b>
21159	predMultiLoc-Gneg: Predicting Subcellular Localization of Gram-Negative Bacterial Proteins Using Feature Selection in Gene Ontology Space and Support Vector Machine with Resolving the Data Imbalance I
21202	Feasibility of silicon nanowire's electrical characteristics modulation using substrate bias for tunable biosensor design
21259	Analysis of Diffraction Properties of Micro-lens Array (MLA) Engraved Optical Fibers for Biomedical Applications
21262	Investigation of Coil Designs for Transcranial Magnetic Stimulation on Realistic Head model
21408	A Simple Triple-Band Antenna for Implantable Biomedical Application
21490	Minimization of Path Loss for a UWB Communication Link in a Wireless Capsule Endoscopy System using Antenna Parameters

**T4-Room 2: 23 December 2017 Saturday 8:45A-10:15A****Healthcare and Biomedical Engineering (BIO-VI)**

<b>ID</b>	<b>Paper Title</b>
21268	GiveMed: A Webportal for Medicine Distribution among Poverty-stricken People
21299	Subcutaneous Vein Detection Using Pigeon Hole Imaging: Simulation Study
21419	Comparison of Isomap and Matrix Factorization with Mahalanobis Based Sparse Representation Classifier for Epilepsy Classification from EEG signals
21503	An Improved Dynamic Daltonization for Color-Blinds
21518	Hand Movement Recognition Based on Singular Value Decomposition of Surface EMG Signal
21444	Influence of differential features in focal and non-focal EEG signal classification



## Robotics and Automation (ROB)

T3-Room 4: 22 December 2017 Friday 3:30P-05:00P

### Robotics and Automation (ROB-I)

ID	Paper Title
21310	Eyeball Gesture Controlled Automatic Wheelchair Using Deep Learning
21359	Real Time Hand Movement Controlled Robotic Arm for Risk Prevention
21473	Brain-TV Connection: Toward Establishing Emotional Connection with Smart TVs
21180	Visual Content Search using Subconscious Retinal Response
21453	Yoga Posture Recognition By Detecting Human Joint Points In Real Time Using Microsoft Kinect
21469	Spontaneous Micro-Expression Recognition Using Optimal Firefly Algorithm Coupled with ISO-FLANN Classification

T4-Room 4: 23 December 2017 Saturday 8:45A-10:30A

### Robotics and Automation (ROB-II)

ID	Paper Title
21264	Automated indoor waste management system employing Wavefront Algorithm and Received Signal Strength Indicator values based mobile robot
21458	Bangla Handwritten Characters Recognition by Using Distance-Based Segmentation and Histogram Oriented Gradients
21323	Traffic Sign Detection- A New Approach and Recognition Using Convolution Neural Network
21393	Autonomous Railway Crack Detector Robot for Bangladesh: SCANOBOT
21440	Faster Convergence and Reduction of Overfitting in Numerical Hand Sign Recognition using DCNN
21149	Programming challenges of Chatbot: Current and Future Prospective

## Communication and Signal Processing (CSP)

T1-Room 1: 22 December 2017 Friday 8:45A-10:15A

### Communication and Signal Processing (CSP-I)

ID	Paper Title
21201	Towards An IoT Empowered Flexible Chipless RFID Tag for Low Cost Item Identification
21411	Network Lifetime Aware Anchor Selection for Energy Harvesting Wireless Sensor Networks
21137	Beamwidth Reduction of Binomial Array for 5G Communications
21373	Performance Evaluation of SISO OFDM System in the Presence of CFO, Timing Jitter and Phase Noise for Rayleigh and Rician Fading Channels
21484	ENERGY ANALYSIS OF TWO-TIERED CLUSTERED ARCHITECTURES FOR SMART WORLD APPLICATIONS

T3-Room 4: 22 December 2017 Friday 3:30P-05:00P

### Communication and Signal Processing (CSP-II)

ID	Paper Title
21140	Social Interest Based Routing Algorithm for Pocket Switched Network
21426	Traffic-load Aware Spectrum Allocation in Cloud assisted Cognitive Radio Networks
21306	Feature Extraction for Hyperspectral Image Classification
21266	A Framework of Energy-Efficient Random Cognitive Radio Network
21203	Malicious Insider Threats in Tactical MANET: The Performace Analysis of DSR Routing Protocol
21313	Prodorshok I: A Bengali Isolated Speech Dataset for Voice-Based Assistive Technologies - A comparative analysis of the effects of data augmentation on HMM-GMM and DNN classifiers

**T4-Room 4: 23 December 2017 Saturday 8:45A-10:30A****Communication and Signal Processing (CSP-III)**

<b>ID</b>	<b>Paper Title</b>
21134	A New Adjustable Window Function to Design FIR Filter and Its Application in Noise Reduction From Contaminated ECG Signal
21229	Enhancing Performance of PCA, ICA through Distribution Transformation
21315	Dual Band Operation with Dual Radiation Pattern for Rectangular Microstrip Patch Antenna Loaded with Metamaterial
21300	Design and Performance Analysis of a Textile Antenna Suitable for Smart Clothing
21512	Representation of Shapes using Connected Pattern Array Grammar Model
21389	Aperture Coupled Horizontally Engraved Dielectric Resonator Antenna with Improved Bandwidth and High Gain

**Power, Energy, and Machines (PEM)****T1-Room 6: 22 December 2017 Friday 8:45A-10:15A****Power, Energy, and Machines (PEM-I)**

<b>ID</b>	<b>Paper Title</b>
21436	Harmonic Distorted Modified Triangular Wave Pulse Width Modulation for Multilevel Converters
21316	Performance Analysis of Switching Techniques for Asymmetric Multilevel Inverters
21392	Single-Phase Switched Capacitor AC-DC Step Down Converters for Improved Power Quality
21254	Small Signal Modeling and Control of Isolated Three Port DC-DC Converter for PV-Battery System
21396	INFLUENCE OF ELEMENTAL PARAMETER IN THE BOOST AND THE BUCK CONVERTER

**T2-Room 6: 22 December 2017 Friday 10:30A-11:45A****Power, Energy, and Machines (PEM-II)**

<b>ID</b>	<b>Paper Title</b>
21371	Fuzzy Logic based Matrix Converter Controlled Induction Motor Drive
21443	Development of a Neighborhood Electric Vehicle for a Paraplegic and Elderly Person
21305	Interior Permanent Magnet Synchronous Machine (IPMSM) design for environment friendly Hybrid Electric Vehicle (HEV) Applications
21133	Torque Sensor Based Electrically Assisted Hybrid Tricycle: From Design To Development
21278	Field Oriented Space Vector Pulse Width Modulation Control of Permanent Magnet Brushless DC Motor

**T3-Room 6: 22 December 2017 Friday 3:30P-05:00P****Power, Energy, and Machines (PEM-III)**

<b>ID</b>	<b>Paper Title</b>
21289	A New Model of Low Power Dynamic Logic Circuit
21213	Generation of Electrical Power Using Gymnasium Bicycle
21192	LAA-LTE and WiFi based Smart Grid Metering Infrastructure in 3.5 GHz Band
21247	A Novel Split-Pi Converter with High Step-up Ratio
21123	Solar Home System Program in Rural East Timor - Putting Communities First
21517	Design and Implementation of a Prototypic Hybrid Power Supply System for Street Lighting

**T4-Room 6: 23 December 2017 Saturday 8:45A-10:15A****Power, Energy, and Machines (PEM-IV)**

<b>ID</b>	<b>Paper Title</b>
21233	Development of a prototype model for assessing tidal energy extraction potential
21206	A Comprehensive Study on CZTS Solar Cell Simulation with ZnSe Buffer Layer
21285	Reduction of Harmonics Distortion and Voltage Sag of PMSG Based Wind Energy Systems Connected to Distribution Networks.
21331	Simulation Study of Multijunction Solar Cell Incorporating GaAsBi
21431	VOLTAGE CONTROL OF FUEL CELL-WIND-DIESEL HYBRID POWER SYSTEM USING FA BASED SVC AND AVR CONTROLLER

**Computer and Security (COS)****T1-Room 42: 22 December 2017 Friday 8:45A-10:15A****Computer and Security (COS-I)**

<b>ID</b>	<b>Paper Title</b>
21486	BFSp: A Feature Selection Method for Bug Severity Classification
21324	Machine Learning Based Class Level Prediction of Restaurant Reviews
21402	Mining Trailers Data from YouTube for Predicting Gross Income of Movies
21439	RIZE: A Proposed Requirements Prioritization Technique for Agile Development
21504	Spurious Key Analysis (SKA) of Indic Scripts using Single Key-Space and Only Text (SKOT) as Message Space

**T2-Room 4: 22 December 2017 Friday 10:30A-11:45A****Computer and Security (COS-II)**

<b>ID</b>	<b>Paper Title</b>
21390	Bandwidth Allocation and Computation Offloading for Service Specific IoT Edge Devices
21463	A smart grid prerequisite: survey on electricity demand forecasting models and scope analysis of demand forecasting in Bangladesh
21388	Biometrically Secured Electronic Voting Machine
21152	An IoT Based Smart School Bus Monitoring and Notification System
21447	Vulnerability Testing in Online Shopping Android Applications

**Devices, Circuits and Photonics (DCP)****T2-Room 5: 22 December 2017 Friday 10:30A-11:45A****Devices, Circuits and Photonics (DCP-I)**

<b>ID</b>	<b>Paper Title</b>
21196	PCB Soldering Machine by using Reflow Method
21357	Implementation of a Reading Device for Bengali Speaking Visually Handicapped People
21420	On the possibility of using plasmonic metal nanoparticles embedded within the silicon substrate to enhance the energy conversion efficiency of silicon thin-film solar cells
21434	New Topologies of Cuk PFC Converter with Switched Capacitor for Low Power Applications
21468	A Hybrid DC-DC Buck Converter for Very Low Voltage Gain at High Efficiency

**T4-Room 3: 23 December 2017 Saturday 8:45A-10:15A****Devices, Circuits and Photonics (DCP-II)**

<b>ID</b>	<b>Paper Title</b>
21221	Structural, electronic and optical properties of pristine and metal (TI) doped B6 nanocluster: A DFT study
21291	Application of Nanocavity Embedded Dual Metal Double Gate TFET in Biomolecule Detection
21344	Design and Simulation of 30 Gbps Optical Half-Adder and Half-Subtractor using Highly Nonlinear Fibers
21372	High On-Current and Low Threshold GaSb-InAs Heterostructure Dual-Material DG Tunnel-FET
21398	Modelling and Performance Analysis of Asymmetric Double Gate Stack-Oxide Junctionless FET in Subthreshold Region
21526	Graphene Coated Photonic Crystal Fiber Biosensor Based on Surface Plasmon Resonance

# Interactive Poster Presentation (P1)

22 December 2017 Friday 2:00P-3:30P (Poster area will open at 12:30 PM)

Humbly request you to be present with the poster in the poster area before 12:45 PM

ID	Paper Title
<b>Community Needs and Environment (CNE)</b>	
21433	Low-cost learning environment for grass-root education
21466	Introducing an Intelligent Learning and Earning Platform Employing Learner's Behavior and Performance
21519	RSF: A Recommendation System for Farmers
21532	Design and Implementation of Cost Effective Water Quality Evaluation System
<b>Humanitarian Challenges (HUM)</b>	
21200	A Cost Effective Electronic Braille for Visually Impaired Individuals
21236	Development of Smartphone-based Student Attendance System
21381	Improvement of electronic Governance and mobile Governance in Multilingual Countries with Digital Etymology using Sanskrit Grammar
21406	An Arduino Based Accident Prevention And Identification System For Vehicles
21446	Cost Efficient Autonomous Navigation System (E-Cane) for visually impaired human beings.
21491	BONDHON: An Integrated Organization Hub for Facilitating Street Children of Bangladesh
21498	Towards a Grid Based Sensor Fusion for Visually Impaired Navigation using Sonar and Vision Measurements
<b>Healthcare and Biomedical Engineering (BIO)</b>	



21127	Imaging Techniques to Extract Information: New Born Baby's Skin Birthmark
21160	Design & Development of Plastics Tele-microscope Visual Aids for Vision Impaired using State-of-art Aspheric Technology
21217	Technology-Based Public Policy Interventions to Enhance Access to Health Care Support: A Study in the Context of Rural Bangladesh
21386	Intrinsic motivated cervical cancer screening intervention framework
<b>Power, Energy, and Machines (PEM)</b>	
21298	Distributed Control Techniques for Autonomous AC Microgrid-A Brief Review
21240	Hexagonal boron cluster as an anode material for divalent ion (Ca <sup>2+</sup> ) storage: A theoretical study
21261	Future of Power Generation in Bangladesh: Present Condition and Future Implications
21308	Performance Analysis of Symmetric and Asymmetric Multilevel Converters
21360	Characterization of Amorphous Soft Magnetic Materials for Toroidal Core Multi-Winding Medium Frequency Transformers
21368	Demand Side Load Management System for End User in Micro Grid
<b>Computer and Securit (COS)</b>	
21151	Combined approach of Tokenization and Mining to secure and optimize Big Data in Cloud Storage
21449	Application of phonetic encoding for analyzing similarity of Patient's Data- Bangladesh Perspective
21501	Cybersecurity Awareness Survey: An Analysis from Bangladesh Perspective
21367	Real-time Vehicle monitoring for traffic surveillance and adaptive change detection using Raspberry Pi Camera Module
<b>Communication and Signal Processing (CSP)</b>	

21535	The 12B8T Multilevel Line Coding Scheme in Digital to Digital Data Conversion
21148	A Game Theory Based Approach for Efficient Spectrum Allocation in Cognitive Radio Networks
21515	Quarter Wavelength Open Stub Band Pass Filter Based on Dumbbell Annular Ring Resonator For UWB Applications
21429	Optimal Execution of Virtualized Network Functions in a Multi-data-center Cloud
<b>Devices, Circuits and Photonics (DCS)</b>	
21397	Modeling of a Control System with Near-Critical Damping Condition: Influence of Time Factor
21401	A Comparative Study on Different HTMs in Perovskite Solar Cell with ZnOS Electron Transport Layer
<b>Robotics and Automation (ROB)</b>	
21275	Design and Development of the social Humanoid Robot named Ribo
21438	De-noised and Compressed Image Watermarking Based on Singular Value Decomposition

# Interactive Poster Presentation (P2)

23 December 2017 Saturday 11:45A-1:00P (Poster area will open at 10:30 AM)

Humbly request you to be present with the poster in the poster area before 10:30 AM

ID	Paper Title
<b>Humanitarian Challenges (HUM)</b>	
21142	Application of Cloudbridge Automation using Raspberry Pi
21188	Rational Approximation of Fractional Order System in Delta Domain- A Unified Approach
21407	Design and Fabrication of a Vehicle Security System Using Password Protected Initiation & Development of a Cost-effective Speedometer
21415	Impact of Learning Analytics on Product Marketing with Serious Games in Bangladesh
21522	Brain-Drive: A Smart Driver for Controlling Digital Appliances Using Cognitive Command
<b>Healthcare and Biomedical Engineering (BIO)</b>	
21121	Effects of Speech-shaped Noise on Consonant Recognition in Malay
21128	Computerized obstructive sleep apnea diagnosis from single-lead ECG signals using dual-tree complex wavelet transform
21312	Methods to predict Blood Glucose Level for Type 2 Diabetes patients
21424	Performance Analysis of QR-decomposition RLS and Householder Sliding Window RLS for Noise Elimination of EEG
21502	Efficient Approaches for Accuracy Improvement of Breast Cancer Classification Using Wisconsin Database
<b>Communication and Signal Processing (CSP)</b>	
21186	An Experiment For Isolating Normal & Malicious Node Behavior In VANET

21237	On the Comparative Performance of PAPR Reducing Phase Sequences for OFDM System
21144	Smart Zone Sensing System with Accident Prevention
21107	Voice Command Based Matlab GUI for Microcontroller
<b>Power, Energy, and Machines (PEM)</b>	
21432	Implementation of an RTC Based Multilevel Solar Panel System
21461	Feasibility Analysis of Solar Powered Base Stations for Sustainable Heterogeneous Networks
21489	Photovoltaic Water Pumping System using Maximum Power Point Tracking
21507	Study of Ultra-Thin and Stable AISb Solar Cell with Potential Copper Telluride BSF
21514	Real-Time Arduino Based Simulator Enabled Hardware-in-the-Loop Electric DC Machine Drive System
21413	Green Kamal Project: Empowering the Least Developed Part of a Metropolitan City through PV Power Generators Installation
21284	Phasor Measurement Unit integration: A Review on Optimal PMU Placement methods in Power System
<b>Computer and Security (COS)</b>	
21177	IoT Security Algorithm Performance Analysis by Implementing in Raspberry Pi
21163	IoT Based Street Lighting And Traffic Management System
21487	A New Protection System of Linear Generators Used for Converting Oceanic Wave Energy into Electricity
21472	Mining Traffic Accident Data of N5 National Highway in Bangladesh Employing Decision Trees
21150	Power File Extraction Process from Bangladesh Grid and Exploring ENF Based Classification Accuracy using Machine Learning
<b>Devices, Circuits and Photonics (DCS)</b>	

21274	Analytical Modeling and Performance Analysis for Symmetric Double Gate Stack-Oxide Junctionless Field Effect Transistor in Subthreshold Region
21506	Chemical Sensor Based on Micro Structured Porous Core Photonic Crystal Fiber with High Sensitivity
<b>Community Needs and Environment (CNE)</b>	
21448	Design and Implementation of a Forklift with Dynamic Stability
<b>Robotics and Automation (ROB)</b>	
21198	OnTraNetBD: A Knowledgebase for the Travel Network in Bangladesh
21245	The Issues and the Possible Solutions for Implementing Self-Driving Cars in Bangladesh
21273	Arduino based Battlefield Assistive Robot