

## EICT 2015: List of Accepted papers

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Submission ID	Title
1007	3rd Hand: A Device to Support Elderly and Disabled Person
1015	Assisted Vehicle Driving Embedded with Autonomous Security System
1017	A Survey on Interconnect Encoding for Reducing Power Consumption, Delay and Crosstalk
1021	An optical character recognition system from printed text and text image using adaptive neuro fuzzy inference system
1027	Humanlike Robotic Vision System Using Artificial Neural Network
1028	Self-Adaptive Gaussian Diversity Guided Mutation Operator for Differential Evolution Algorithm
1032	Optimizing Preprocessing Method of Recursive-BKZ Lattice Reduction Algorithm
1036	OPTIMAL TASK SCHEDULING IN CLOUD COMPUTING ENVIRONMENT: META HEURISTIC APPROACHES
1039	Longest Common Subsequence using Chemical Reaction Optimization
1042	EaChOff: Chunk Offset Compression Scheme for High Dimensional Data based on Extendible Multidimensional Array
1043	A Low Hop Distance Hierarchical Interconnection Network
1047	Classification and pattern recognition algorithms applied to E-Nose
1051	A Novel Trust Measurement System for Cloud-based Marketplace
1052	Fingerprint Acquisition and Verification on Mobile Devices
1054	Toward Number Recognition System : A Non-stationary Signal Analyzing Approach through SVM Algorithm
1055	Soft Error Tolerance Using Horizontal-Vertical-Diagonal-Blocks
1056	Towards Tolerating Soft Errors in Memory Applications
1062	GSM and GPS Based Intelligent Method to Track Movement and Detect Collision and Rollover of Wheelchairs
1063	A Methodology for the Visualization of Hash Tables that Made Investigating and Possibly Controlling Write-Back Caches a Reality
1064	A Rule Based Approach for NLP Based Query Processing
1070	Multi Objective Non-dominated Sorting Genetic Algorithm (NSGA-II) for Optimizing Fuzzy Rule Base System
1071	A Multi-Objective Genetic Algorithm with Fuzzy Relational Clustering for Automatic Data Clustering
1072	Modified Bus Invert Encoding to Reduce Capacitive Crosstalk Power and Inductive Noise

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1074	Efficient Index Computation for Array Based Structured Data
1076	Orchestration Algorithms for Network-assisted Virtual Machine Migrations using OpenDayLight Controller
1077	Solving Capacitated Vehicle Routing Problem with Route Optimization using Swarm Intelligence
2004	Computing a Longest Common Subsequence for Multiple Sequences
2005	A Novel Efficient Approach for Designing FIR Low-pass Filter and Its Application
2013	Independent Component Analysis for EOG artifacts minimization of EEG signals using kurtosis as a threshold
2014	Automatic Detection of Optic Disc in Fundus Images by Curve Operator
2016	Alpha Band Dependency of EEG Signal on Different Stimulation of Brain for Human Computer Interaction
2017	An Approach to Estimate Cognitive State with the Impact of Listening Music on Brain Activity
2018	A Simple and Improved Eye Movement Features Detection Process from Saccadic Samples of Electrooculographic Data
2019	Effects of Elevated Sleeping Postures on Cardiac Functions Analyzing Electrical Bio-impedance and Skin Blood Perfusion
2023	A Novel Dual Purpose Spatial Domain Algorithm for Digital Image Watermarking and Cryptography Using Extended Hamming Code
2025	Role of Clinical Engineering to Reduce Patient's Risk Factors in Life Support Ventilator
2030	A Mathematical Approach to Determine the Work-done from EMG Analysis
2031	Continuous Heart Rate and Body Temperature Monitoring System using Arduino UNO and Android Device
2035	A New Approach to Extract Features from ECG Signals
2037	Development of Low Cost Wireless Biosignal Acquisition System for ECG EMG and EOG
2038	An Approach to Convert Conventional Screen into Touch Screen Using Image Processing
2039	A new sample preparation technique for linear dilution gradient with minimal sample utilization and waste generation in DMFBs
2040	Automatic Sleep Stage Classification
3008	Mitigation of Thermally Induced Crosstalk Noise by Dynamically Adjusting Driver Strength
3011	Online Time-Frequency Analysis Based Current and Vibration Signal Monitoring for Fault Detection of Bowed Rotor and Unbalanced Rotor IM Drive
3014	Implementation of Multiple Renewable Sources Using Multi Input Dual Output DC-DC Boost Converter for Hybrid Electric Vehicle

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3020	Nonlinear Robust Adaptive Backstepping Controller Design for Rejecting Wind Gusts Effect in an Unmanned Autonomous Vehicle
3021	Nonlinear Adaptive Flight Control of a Rotary Wing Unmanned Autonomous Vehicle using Backstepping Controller
3030	Artificial Neural Network based Soft-Starter for Induction Motor
3033	Analysis of Common-Mode Rejection Ratio of a CMOS Differential Amplifier Considering All the Non-idealities
3034	Implementation And Evaluation Of An Efficient Clock Distribution Network For Deep-Submicron Technology
3037	Microcontroller Based Self Sustaining Automatic Traffic Light Control Using Speed Breaker
3039	Password Protected Multiuser Wireless Electronic Noticing System by GSM with Robust Algorithm
4009	Design of O-PCF structure for sensing applications with high relative sensitivity
4013	Free-Space Optical Communication with m-ary Pulse Position Modulation under Strong Turbulence with Different Type of Receivers
4016	Performance Analysis of Large Scale ZigBee Network Design Through Geometric Structure
4018	A New Wideband DNG Meta material
4019	A New Mu-Negative Meta material
4020	Security in Cooperative Spatial Multiplexing System with Zero-Forcing Filtering
4023	Evidence Theory-Based Cooperative Spectrum Sensing in Multi Antenna Cognitive Radio System
4024	A Metamaterial Based Triangular Cloak
4025	Implementation of a 1x16 Router Using 2x2 Mach-Zehnder Interferometer Electro-Optic Switch
4027	Cooperative Spectrum Sharing with Space Time Block Coding and Non-orthogonal Multiple Access
4031	Enhanced Wi-Fi Direct Power Saving with Power Control for the Mobile Phone
4032	PAPR Reduction of OFDM System Using Condem Matrix Based SLM Method with Low Computational Overhead
4033	Energy-Efficient Cellular Communications Powered by Smart Grid Technology
4036	Orientation Dependent Performance of 635nm Vertical Cavity Surface Emitting QW Red Laser
4045	Wideband Planar Monopole Antenna for LTE, GSM, Bluetooth, WiMAX, DCS, PCS, and GPS Mobile Terminals.

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4047	On the Architectures of RF Based Underwater Wireless Sensor Networks for Intruder Detection
4055	Modelling of Highly Birefringent Dispersion Compensating Circular Photonic Crystal Fiber
4060	Design and Evaluation of a Novel UWB Wearable Textile Antenna for Body Area Network
4061	Effective Modeling of Microstrip Patch Antenna with Circular EBG Structure
4063	Observation of Low-pass Performance from Novel Trapezoidal Slotted Dumbbell Shape EBGs
4064	Receiver Initiated Multi-channel Medium Access Control Protocol for Cognitive Radio Network
4069	Opportunistic System Approach for Capacity Enhancement and Congestion Mitigation in Advanced Wireless Networks
4070	A Comparative analysis of the characterization methods for submicron silicon waveguide propagation loss
4071	Effect of Complementary Triangular Split Ring Resonator on Microstrip Patch Antenna
4074	A High-Gain Slot-Loaded Microstrip Patch Antenna Fed by a Half-Width Microstrip Line for 5.5 and 5.8 GHz Wi-Fi/WiMAX Applications
4076	Aluminum Nitride based Wideband Patch Antenna for Multiband Wireless Applications
4078	Microstrip Asymmetric Couple-Line Bandpass Filter Design With Great Matching, Low Insertion Loss and Enhanced Passband
4080	Low Insertion Loss, High Selectivity and Very Wide Stopband Microstrip Low Pass Filters
4085	Design & Simulation of Ultra-Flattened Dispersion Large Mode Area and Low Splice Loss Photonic Crystal Fiber
4087	Outage Capacity Analysis of Cluster-based Forwarding Scheme for Body Area Network using Nano-electromagnetic Communication
5005	Graphene nanoribbon based Antenna For Terahertz Band Communication
5010	Optimization of Indium Gallium Nitride Quantum Dots for Absorbing Light from Solar Spectra
5012	Analysis of Carrier Injection and Recombination in Modified ITO Based Organic Light Emitting Diode Using Numerical Simulation
5017	STUDY ON THE PROSPECTS OF Sb <sub>2</sub> Te <sub>3</sub> BACK SURFACE FIELD IN ZnCdS/ZnCdTe THIN FILM SOLAR CELL
5018	Study on Crystal Orientation-dependent Effective mass in III-V Semiconductors
5019	Realistic Edge Shape Effects on the Vibrational Properties of Graphene Nanoribbons
5020	Modeling of Crosstalk Induced Overshoot/Undershoot Effects in Multilayer Graphene Nanoribbon Interconnects
5021	Analytical Drain Current Model for Graphene Metal-Oxide semiconductor Field-Effect Transistor

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5024	An Approach to Determine Bandgap Energy in Graphene under Shear Strain Condition
5025	Modeling and Performance Analysis of Multilayer Zigzag Graphene Nanoribbon (zz-MLGNR) Interconnect for VLSI Application
5027	Study of the Variation of Resistivity, Permeability and Curie Temperature of Rare Earth Metal Yttrium (Y) Substitution on Ni <sub>0.60</sub> Zn <sub>0.40-x</sub> Y <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> (x=0.05, 0.10, 0.15) Ferrites
5028	Large Signal Performance of Graphene-FET Considering Contact Resistance
5029	Efficient design of thermal mangement by graphene heat spreader in embedded system
5030	Analytical Approach of J-V Characteristics of CdTe Based Thin Film Solar Cells Including Voltage and Space Dependent Electric Field in the Absorber Layer
5031	Effect of Dislocation Density on the Performance of InGaN-Based MJ Solar Cell:Analytical Approach
5035	Effects of Photon Recycling on the Properties of p+ n GaAs Solar Cell
5036	Phonon Spectrum modification of Cubic Semiconductor Quantum Dot
6006	Studying The Impacts of Cyber-attacks On Smart Grid
6009	A Feasibility Study of Mini hydroelectric Power Plant at Sahasradhara Waterfall, Sitakunda, Bangladesh
6012	Optimization of Distributed Energy Resources to Balance Power Supply and Demand in a Smart Grid
6016	Production of Transportation fuel from Municipal Solid waste.
6019	Commercially Feasible Solar Water Pumping System for Rooftop Solar Panel in Dhaka City
6023	Simulation and Analysis of Battery Performance of a Solar Car Using a Model Implemented in SIMULINK
6025	Enhancement of Device Performance with Optimized Absorber Layer in CIGS Solar Cell
6029	A New Prediction Model for Solar Irradiance using Ant Colony Optimization and Neural Network
6030	Power Distribution Scheme Using Smart Meter, Perspective Bangladesh
6031	Efficient PV Array Modelling by Analyzing PV System(cell/module/array) Based on MATLAB
6034	Replacing Diesel Irrigation Pumps with Solar Photovoltaic Pumps for Sustainable Irrigation in Bangladesh: A Feasibility Study with HOMER
6035	Cost Analysis of Rural Distribution Systems with Three Phase and Single Phase Tap Line
6043	Investigation of THD on a 12-Pulse HVDC Transmission Network and Mitigation of Harmonic Currents Using Passive Filters

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6044	Harmonic Analysis on LVDC Distribution System and Passive Filter Techniques for Harmonic Reduction
6045	An Accurate and Efficient Solar Tracking System using Image Processing and LDR Sensor
6046	Effects of Different Solar Radiation on the Efficiency of GaInP <sub>2</sub> /GaAs/Ge based multi junction solar cell
6050	Introducing PZT as a Power Generation Unit for Auto Street Light
6053	Multi-agent System Modeling for managing limited distributed generation of Microgrid
6055	Renewable Energy Based Hybrid Power System: the Best Way to Keep the World Pollution Free from GHG
6057	Damping of Power System Oscillations using STATCOM
7005	Automatic Gender Identification System for Bengali Speech
7015	A Support Vector Regression model for forecasting rainfall
7019	Enhancing Software Development Process Using Automated Adaptation of Object Ensembles
7021	A Modified Fuzzy Relational Clustering Approach For Sentence-Level Text
7022	Performance Analysis for Detection of Breast Cancer Biomarker HER2 using a Double Gate FET Nano Biosensor
7024	Helping Software Developers through Offline Repository Based API Searching in Data Mining Integrated Environment
7028	An Experimental Study Of Stylogenetics in Bangla Literature.
7029	Designing an Empirical Framework to Measure the Level of Interest of Human
7033	BQAS: A Bilingual Question Answering System