

# **2016 3rd International Conference on Electrical Engineering and Information Communication Technology (iCEEiCT 2016)**

**Dhaka, Bangladesh  
22 – 24 September 2016**



**IEEE Catalog Number: CFP1681X-POD  
ISBN: 978-1-5090-2907-5**

**Copyright © 2016 by the Institute of Electrical and Electronics Engineers, Inc  
All Rights Reserved**

*Copyright and Reprint Permissions:* Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

***\*\*\* This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP1681X-POD
ISBN (Print-On-Demand):	978-1-5090-2907-5
ISBN (Online):	978-1-5090-2906-8

**Additional Copies of This Publication Are Available From:**

Curran Associates, Inc  
57 Morehouse Lane  
Red Hook, NY 12571 USA  
Phone: (845) 758-0400  
Fax: (845) 758-2633  
E-mail: [curran@proceedings.com](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

CURRAN ASSOCIATES INC.  
**proceedings**  
.com

### **List of all Accepted Oral Papers**

<b>S/No.</b>	<b>Paper ID</b>	<b>Title of the Paper</b>	<b>Author(s)</b>
1.	1005	A Determination Process of the Number and Distance of Sea Objects using CHIRP Signal in a Three Sensors Based Underwater Network.....1	Shaik Asif Hossain, M. F. Ali, Md. Itmam Akif, Rakibul Islam, Alok Kumar Paul and Amit Halder
2.	1019	Triple Material Double Gate TFET with Optimized Si Film Thickness.....7	Samia Safa, Samantha Lubaba Noor and Md. Ziaur Rahman Khan
3.	1028	Semi Supervised Keyword Based Bengali Document Categorization.....11	Fahim Quadery, Abdullah Al Maruf, Tamjid Ahmed and Md. Saiful Islam
4.	1039	Estimation of Polarization Charge in Nitride Based MODFETs Using Differential Threshold Voltage Technique.....16	Muhammad Navid Anjum Aadit, Sharadindu Gopal Kirtania and Md. Kawsar Alam
5.	1040	Switching Optimisation in Huffman Code for Power Efficient Data Transmission.....22	Sohag Kabir, Youcef Gheraibia and Tanzima Azad
6.	1044	Modeling and Simulation of Stand-alone Fuel Cell System for Distributed Generation Application.....28	Himadry Shekhar Das, Chee Wei Tan, A. H. M. Yatim and Nik Din bin Muhamad
7.	1049	Randomized Energy-Based AODV Protocol For Wireless Ad-Hoc Network.....34	Syeda Nyma Ferdous and Md. Shohrab Hossain
8.	1056	An Improved Universal Re-encryption Based on Okamoto-Uchiyama Cryptosystem.....39	Nazmul Islam, Kazi Md. Rokibul Alam and Yasuhiko Morimoto
9.	1063	A Survey on Use of Hybrid Fillers in Conductive Polymer Composites.....44	Al Basir, Md. Mamunur Rahman, Md. Imran Khan and Md. Billal Hossain
10.	1064	A low cost MEMS and Complementary Filter Based Attitude Heading Reference System (AHRS) for low speed Aircraft.....50	Md. Saiful Islam, Md. Shajid-Ul-Mahmud, Tariqul Islam, Md. Syedul Amin and Md Hossam-E-Haider
11.	1091	A Meta Study of Reduction of Speckle Noise Adopting Different Filtering Techniques.....55	Prajoy Podder and Md. Mehedi Hasan
12.	1101	Caffeine Dose Dependent Blood Perfusion: <i>Effects on Rhythmic Activities using Frequency Spectrum</i> .....61	Md. Bashir Uddin and Mohiuddin Ahmad

13.	1104	Design and Implementation of Three-Stage Battery Charger for Lead-Acid Battery.....66	Md. Shahrier Hakim, Farhana Latif, Md. Imran Khan and Al Basir
14.	1106	High Performance Charger Design of a Dual Feed BLDC MotorDriven Electric Vehicle.....71	Md. Nasmus Sakib Khan Shabbir, Shafi Md. Kawsar Zaman, Md. Shafayet Hossain, Anik Dey Sarker and Tanvir Ahmed
15.	1111	Android Based Health Care Service System for Aged Diabetic Patients.....77	Farzana Alam Khan and Mohammad Ibrahim Khan
16.	1113	Security Analysis of Approaches to Integrate Middleboxes into Software Defined Networks.....83	Tobias Eggert and Rahamatullah Khondoker
17.	1117	Performance Comparison of MFCC Based Bangla ASR System in Presence and Absence of Third Differential Coefficients.....90	Sudipto Debnath, Fatema-E-Jannat, Susmita Saha, Mohammad Tarik Aziz, Rifayet Hasan Sajol and Md. Jakaria Rahimi
18.	1122	A Compact Multiband Antenna for 4G/LTE and WLAN Mobile Phone Applications.....96	Foez Ahmed, Md. Halim Miah Chowdhury and Nisab Hasan
19.	1133	Different Control Schemes of Entire Microgrid: A Brief Overview.....100	Md. Ashib Rahman and Md. Rabiul Islam
20.	1134	Performance Limitations of Optical Transmission System Due to the Combined Effects of Chirping, GVD and SPM.....106	Kanis Fatima and Md. Saiful Islam
21.	1144	FPGA Implementation of LBlock Lightweight Block Cipher.....111	Md. Nazmul Hasan, Md. Tariq Hasan, Rafia Nishat Toma and Md. Maniruzzaman
22.	1153	Design and Optimization of Optical Add-Drop Filter and Sensor using 2D Photonic Crystal.....115	Shakila Naznin, Rajib Mandal, Shamlendu Sarker, Md. Tanveer Alam, Md. Shamim Ahsan and Md. Younus Ali
23.	1159	Throughput Analysis for TCP NewReno.....120	Lutfun Nahar, Tarana Nasrin, Md. Mohibur Rahaman and Kazi Ashrafuzzaman
24.	1161	Effects of Higher Concentration of Hole Transport Material on Organic Light Emitting Diode Performance.....126	Riku Chowdhury, Md. Rashedul Haq, Md. Sarwar Uddin Chowdhury, Sharmin Afrose and Sukanta Paul
25.	1162	Computational Overhead Reduction and Side	Md. Moshiur Rahman, Md. Nur Al

		Information Free Transmission with Low PAPR for Riemann Sequence Based OFDM System.....131	Safa Bhuiyan, Muhammad Sajjadur Rahim and Sabbir Ahmed
26.	1167	Highly Birefringent Octagonal Shaped Photonic Crystal Fiber with Two Zero Dispersion Wavelengths in Ti:sapphire Oscillator Range.....137	Md. Mamunur Rashid, Md. Shamim Anower and Md. Rabiul Hasan
27.	1170	A Smart Solution for Solar DC Nano Grid integrated with Pre-paid billing and Mobile Application.....142	Mahmud Ibrahim, Shahriar Ahmed Chowdhury, Mohammad Nurul Huda and M. Rezwan Khan
28.	1176	Power Factor Correction for Single Phase Loads using Modified Vienna Rectifier.....148	Mir Humainul Islam and M. Abdur Razzak
29.	1179	Analysis of Power Demand Response for Smart Home in Germany from End-User's Perspective Based on High Resolution Power Demand Model.....154	Nayeem Hasan Mallick and Md. Hasan Maruf
30.	1183	Transforming a Multi-value Database System into a Relational Database System for Faster Querying.....160	Md. Zahid Hasan and Mohammad Rezwanul Huq
31.	1185	Improvement of PF and Reduction of THD using PID Controlled Current Sensored Three Phase Rectifier.....166	Md. Nasmus Sakib Khan Shabbir, Mahbubur Rahman, Farhana Afrin, Shamsun Naher Shila and Md. Shafayet Hossain
32.	1188	Automated Soil Clustering for Crops Cultivation.....171	Afrida Islam, Junaeid Ahmed, Akash Bhuiyan, Md. Aminul Islam and Mohammad Nurul Huda
33.	1189	Online Multi-thread Polling Algorithm with Predicted Window Size for DBA in Long Reach PON.....177	Rehnuma Bushra, Monir Hossen and Mohammad Mahbubur Rahman
34.	1190	Electrical Characteristics of Two Dimensionally Modeled InGaN/InN/InGaN-based Double Channel HEMTs (DHEMTs).....182	Md. Rashedul Haq, Riku Chowdhury, Sharmin Afrose, Md. Sarwar Uddin Chowdhury
35.	1191	Performance Analysis of a Memristor-based Hybrid Memory Cell with Rapid Bidirectional Storage Capability.....187	Mohammad Nazmus Sakib, Rakibul Hassan and Satyen Biswas
36.	1192	Extracting and discriminating selective brain signals in non-invasive manner and using them for controlling a device: a cost-efficient	Md. Arif Abdulla Samy, Md. Mirazur Rahman and Tafsir Ahmed Khan

		approach to Brain Computer Interface (BCI).....193	
37.	1202	Propagation Characteristics of Ultra-Wideband Pulse in Multilayered Human Chest Tissue.....198	Nouroz Rahman Amon, Ishmam Mahbub and Pran Kanai Saha
38.	1218	Sentiment Analysis On Facebook Group Using Lexicon Based Approach.....203	Sanjida Akter and Muhammad Tareq Aziz
39.	1221	Classification of Motor Imagery Hands Movement Using Levenberg-Marquardt Algorithm based on Statistical Features of EEG Signal.....207	Md. Mamun or Rashid and Mohiuddin Ahmad
40.	1222	Implementation and Comparison of Routing Protocol RIVER with other VANET Protocols....213	Md. Hasnat Riaz, Mohammed Humayun Kabir, Md. Fahidul Islam Shaon and Md. Javed Hossain
41.	1226	Abnormal Mass Classification in Breast Mammography using Rotation Invariant LBP.....217	Haider Adnan Khan, Abdullah Al Helal, Khawza I Ahmed and Raqibul Mostafa
42.	1227	Optimizing the Parameters of Plasmonic Metal Nanoparticles to Maximize the Energy Conversion Efficiency of Thin-Film Solar Cells.....222	Saniat Ahmed Choudhury and Mustafa Habib Chowdhury
43.	1229	Predicting Video Conversion Time from Video Metadata and Conversion Parameters using Gradient Boosting Machine.....228	Md. Toufique Ahmed and Md. Taufeeq Uddin
44.	1231	Application of Computer Vision in Cricket: Foot Overstep No-ball Detection.....234	AZM Ehtesham Chowdhury, Md Shamsur Rahim and Md Asif Ur Rahman
45.	1232	Capacity Optimization of Underwater Acoustic Communication System.....239	A. Z. M. Imran, Md. Murad Hossen and Md. Tahidul Islam
46.	1233	Impact of Cyber-Attack on Isolated Power System.....244	Md. Sahabuddin, Bilash Dutta and Mehedi Hassan
47.	1234	Comparative Analysis of PV Module Efficiency for Different Types of Silicon materials Considering the Effects of Environmental Parameters.....248	Md Faysal Nayan, S. M. Safayet Ullah and S. N. Saif
48.	1235	Enhancement of sensitivity and birefringence of a gas sensor on micro-core based photonic	Sayed Asaduzzaman, Bikash Kumar Paul and Kawsar Ahmed

		crystal fiber.....254	
49.	1243	Impact of User Mobility on the Performance of Downlink Resource Scheduling in Heterogeneous LTE Cellular Networks.....258	Abdullah Bin Shams, Syed Rafiee Abied and Md. Ashraful Hoque
50.	1247	An Approach of Cardiac Disease Prediction by Analyzing ECG Signal.....264	Tahmida Tabassum and Monira Islam
51.	1253	PI Controlled Bi-Directional DC-DC Converter and Highly Efficient Boost Converter for Electric Vehicles.....269	Remon Das and Md. Ashraf Uddin Chowdhury
52.	1255	Efficient and fast convergent consensus algorithms for faulty nodes tracking in distributed wireless sensor networks.....274	Rajkin Hossain and Md. Muhidul Islam Khan
53.	1257	Fabrication Of A Low Cost Microcontroller Based Spray Pyrolysis System For Thin Film Deposition.....280	Md. Sifatul Muktadir
54.	1269	Toward Letter Recognition System: Determination of Best Wavelet and Best Rhythm using EEG.....284	Shabnam Wahed, Masud Rana, S. M. Kamrul Hasan and Mohiuddin Ahmad
55.	1270	Geometrical Approach for Determining the Throwing Destination of an Automatic Throwing Robot.....288	Nahid Uzzaman, Sanzida Hossain and Altab Hossain
56.	1272	A Comparative Analysis Between Light Dependent and Ultrasonic Method of Gesture Recognition.....293	Nahid Uzzaman, Sanzida Hossain, Rezaur Rashid and Altab Hossain
57.	1279	CWT based improved approach to Wideband Spectrum Sensing for Cognitive Radios.....298	Manobendu Sarker
58.	1284	A Routing Protocol for Improving Energy Efficiency in Wireless Sensor Networks.....304	Md. Taybur Rahama, Monir Hossen and Md. Muminur Rahman
59.	1286	Design and Simulation of Maximum Power Point Tracking of Photovoltaic System Using ANN.....310	Md. Samiul Haque Sunny, Abu Naim Rakib Ahmed and Md. Kamrul Hasan
60.	1287	Drowsiness Detection for the Perfection of Brain Computer Interface Using Viola-jones Algorithm.....315	Md. Kamrul Hasan, S. M. Hasnat Ullah, Shantanu Sen Gupta and Mohiuddin Ahmad
61.	1297	Effect of variation of different generator parameters on the stability of a small power	Md. Shazzadul Islam, Md. Sahidul Islam and Muhammed Fayyaz

		plant: An Analysis Through ETAP Software.....320	Khan
62.	1304	Design & Implementation of an Efficient Windmill Anemometer for Wind Speed measurement Using Microcontroller.....326	Sree Bash Chandra Debnath, Biki Barua, Muslim Uddin Faisal and Rezaul Karim
63.	1312	Small-signal Stability Evaluation of a Non-autonomous Microgrid System.....331	A. H. M. A. Rahim, M. M. Atiqur Rahman and M. Ashraf Ali
64.	1315	Electrical Properties of Conductive Polymer Composites Containing Silver-coated Glass Particle and Multi-walled Carbon Nanotube Hybrid Fillers.....336	Al Basir and Md. Imran Khan
65.	1318	Performance of Grid-voltage Synchronization Algorithms Based on Frequency-and Phase-locked Loop During Severe Grid Fault Conditions.....341	Khaled Syfullah Fuad and Eklas Hossain
66.	1319	Class-Based Service Connectivity using Adaptive Guard Channel Reservation in Wireless Networks.....347	Khan Tanjama Mustarin and Mostafa Zaman Chowdhury
67.	1321	Zebra-crossing Detection Based on Geometric Feature and Vertical Vanishing Point.....352	Md. Khaliluzzaman and Kaushik Deb
68.	1330	An Innovative Implementation of Indoor Positioning System Using GPS.....358	Sunjida Sultana, MahdiaTahsin, Tasmia Reza and Md Hossam-E-Haider
69.	1333	Modeling of an Efficient Microstrip Patch Antenna for Microwave Brain Imaging System.....362	Reefat Inum, Md. Masud Rana and Md. Anwarul Quader
70.	1338	Design and Performance Study of Optical Logic Gates Using Ti:KNbO3 Based Waveguide at 1.55 $\mu\text{m}$ .....368	Rabeya Khatun and A. Zahed Chowdhury
71.	1342	Design, Analysis and Optimization of Grid-Connected Solar Photovoltaic System Using RETScreen in Eight Divisions of Bangladesh.....374	Shagorika Mukherjee and M. Abdur Razzak
72.	1346	A Feasibility Study & Simulative Development of Hybrid Power Plant Using Renewable Energy at Isolated Island Kutubdia in Bangladesh.....380	Sree Bash Chandra Debnath, Md. Rashedul Islam, Farhana Afroz, Biki Barua and Samina Alam
73.	1348	Forecasting the Long Term Energy Demand of Bangladesh Using SPSS from 2011-2040.....385	Md. Zakaria Rahman, Md. Nahiduzjaman Sajib, M. M.



			Safayet Hasan Rifat, Md Hossam-E-Haider and Md. Ali Azam Khan
74.	1349	BER Performance Analysis of a FSO OCDMA Communication System with Receive Diversity using SIK Dual Photodetector Receiver.....390	A. K. M. Nazrul Islam and Satya Prasad Majumder
75.	1351	Performance Evolution of a 2x2 MZI Electro-Optic Switch Using Ti:KNbO3 as Waveguide at 1.55 $\mu\text{m}$ .....395	Rabeya Khatun and A. Zahed Chowdhury
76.	1359	Modelling and simulation of power system of battery, solar and fuel cell powered Hybrid Electric Vehicle.....401	Muhammad Sifatul Alam Chowdhury, Khandakar Abdulla Al Mamun and Al Mahmudur Rahman
77.	1360	Analyses of Different Types of Errors for Better Precision in GNSS.....407	Sushmita Joardar, Tanveer Ahmed Siddique, Sakila Alam and Md Hossam-E-Haider
78.	1362	Theoretical Efficiency and Cell Parameters of AlAs/GaAs/Ge Based New Multijunction Solar Cell.....413	Syeda Puspita Mouri, Syed Nazmus Sakib, Shahidul Hoque and M. Shamim Kaiser
79.	1366	Exploring the Opportunity of Using Graphene as the Transparent Conducting Layer in CZTS-based Thin Film Solar Cells.....419	Kashfia Naz Nikita, Md. Abdul Gaffar and Md. Iqbal Bahar Chowdhury
80.	1370	Boost Hybrid Converter with Multiple Inductor Multiplier Cell.....425	Md. Ali Azam Khan and Mohammad Ali Chowdhury
81.	1376	Analysis and Optimization of an Optical Frequency Comb for Multiple Channel Transmission in a Fiberoptic System.....431	Rifat Nazneen and Ebad Zahir
82.	1379	Performance of Large Area Graphene FET Considering the Effect of Strain.....435	Sabbir Ahamed, Md. Nur Kutubul Alam and Md. Rafiqul Islam
83.	1380	Gate Oxide Dependent Performance of Graphene FET Using Quasi-Ballistic Transport Model.....440	Md. Touhid Hossain, Md. Nur Kutubul Alam and Md. Rafiqul Islam
84.	1383	Analytical Modelling of Cds/CdTe Based Thin Film Solar Cells Considering Surface Recombination.....445	Sanimul Alam Rivon, Protik Biswas, Abdullah Sakib Hasan, Ashiq Been Rahim and Md. Iqbal Bahar Chowdhury
85.	1386	Implementing ID3 Algorithm for Gender	Md. Sazzad Hossain, Md.

		Identification of Bangladeshi People.....450	Shamsuzzaman and Md. Ahsan Habib
86.	1390	Detection of Breast Cancer from Histopathology image and Classifying Benign and Malignant State Using Fuzzy Logic.....455	Fatema-Tuz Johra and Md. Maruf Hossain Shuvo
87.	1391	An Empirical Approach to Autonomous GSM BTS based on OSS and OSH.....460	Md. Habibur Rahman and Md. Mamunoor Islam
88.	1392	Design and Implementation of Maximum Power Point Tracking Solar Charge Controller.....465	Md. Rokonzaman and Md Hossam-E-Haider
89.	1393	Depiction of an Interactive Prevarication System during Exigency Situation.....470	Shayhan Ameen Chowdhury, Ahmed Imteaj, Bhaskar Ray and Muhammad Estiak Omar
90.	1396	A New Approach of Detection and Segmentation of Blood Vessels for the Classification of Healthy and Diseased Retinal Images.....476	Bithi Barua and Md. Mehedi Hasan
91.	1402	Analysis of Data Mining Techniques for Heart Disease Prediction.....482	Marjia Sultana, Afrin Haider and Mohammad Shorif Uddin
92.	1404	A Wireless Vehicular Traffic Service Management Scheme.....487	M. A. Moyeen, G. G. Md. Nawaz Ali, Peter Han Joo Chong and Nazmul Islam
93.	1405	Performance Analysis of a Miniaturized Implantable PIFA Antenna for WBAN at ISM Band.....492	Nasim Al Islam and Farhadur Arifin
94.	1408	An Automatic Layout Faults Detection Technique in Responsive Web Pages Considering JavaScript Defined Dynamic Layouts.....497	M. A. Moyeen, G. G. Md. Nawaz Ali, Peter Han Joo Chong and Nazmul Islam
95.	1411	Detecting Jute Plant Disease Using Image Processing and Machine Learning.....502	Zarreen Naowal Reza, Faiza Nuzhat, Nuzhat Ashraf Mahsa and Md. Haider Ali
96.	1419	Mobile Health Applications in Bangladesh - A State-of-The-Art.....508	Md. Mahboob Karim, Muhammad Nazrul Islam, Annita Tahsin Priyoti, Warda Ruheen, Nusrat Jahan, Progga Laboni Pritu, Tanu Dewan and Zaki Tasnim Duti
97.	1428	A Framework for Detecting Arsenic Disease.....513	Md. Ariful Islam and Mohammad

			Shamsul Arefin
98.	1429	Feature Extraction and Classification of EEG signal for Different Brain Control machine.....518	Sheikh Md. Rabiul Islam, Ahosanullah Sajol, Xu Huang and Keng Liang Ou
99.	1434	Evaluation of Geographic Locations for River Bridge Construction: A Multi-Criteria Decision Analysis with Evidential Reasoning Approach.....524	Nasrin Sultana and Risul Islam Rasel
100.	1436	Developing a Block-wise Interpolation based Adaptive Data Embedding Scheme.....528	Md. Abdul Wahed and Hussain Nyeem
101.	1437	Design of Highly Stable and Efficient Molybdenum Telluride PV Cells with Arsenic Telluride BSF.....534	Mrinmoy Dey, Maitry Dey, M. A. Martin and Nowshad Amin
102.	1442	RONI Segmentation for Medical Image Watermarking.....539	Chowdhury M Abid Rahman and Hussain Nyeem
103.	1447	Designing of a Non-Zero Dispersion Shifted Fiber with Ultra-High Birefringence and High Non-Linearity.....545	Shabbir Chowdhury and Japatosh Mondal
104.	1448	Feasibility Study of GSM Network for Tracking Low Altitude Helicopter.....549	A A M Mostafizur Rahman, Shartaz Hossain, Imtiaz Jamil Tuku, Md Hossam-E-Haider and Md. Syedul Amin
105.	1454	Secure Wireless Multicasting Through Multi-cellular MIMO Networks with linear equalization.....554	R. Sayed, M. Z. I. Sarkar, S. M. R. Ali and D. K. Sarker
106.	1455	A Packet Level Simulation Study of Adhoc network with Network Simulator-2 (NS-2).....560	Iftekharul Mobin, Sifat Momen and Nabeel Mohammed
107.	1457	Performance analysis of a DS-CDMA wireless communication system with Multi Carrier(MC) Modulation in presence of Carrier Frequency Offset (CFO).....566	Md. Al-Mamun Sabuz, K. M. Niaz Reza, Md. Rashedul Islam, Md. Jubayed Hasan and Satya Prasad Majumder
108.	1458	Pre-Detection PMD Compensation Based on Feedback of the First and Second RF Harmonic Tones in an Optical Fiber Transmission System.....572	Kazi Abu Taher and Satya Prasad Majumder
109.	1459	On the Selection of Passive Elements for Low Phase Noise LC-Tank VCO in 65 nm Process.....576	Md. Tawfiq Amin

110.	1461	A New LSTM Model by Introducing Biological Cell State.....581	Lamia Rahman, Nabeel Mohammed and Abul Kalam Al Azad
111.	1462	BER Performance Limitation of an Optical Link with Multicore Fiber (MCF) Due to Crosstalk Caused by Mutual Coupling Among the Cores.....587	Md. Al Amin Sajeeb, Farhat Tasnim Farin, Abdur Rahim and Satya Prasad Majumder
112.	1466	Optimization of Interval Type-2 Fuzzy Logic Controllers with Rule Base Size Reduction using Genetic Algorithms.....592	Sonia Yesmin, Animesh Kumar Paul and Pintu Chandra Shill
113.	1472	Analytical SISO Bit Error Rate Evaluation of a Satellite to Ground Link Under the Influence of Log-Normal Atmospheric Turbulence.....598	Sharif Shikder and Satya Prasad Majumder
114.	1473	A Single Phase Input Switched SEPIC PFC AC-DC Converter.....602	Kazi Khurshidi Haque Dia, Ahammad, Samia Islam and Mohammad Ali Choudhury
115.	1477	Numerical Modeling and Analysis of Ultra-Thin Film Cu(In,Ga)Se <sub>2</sub> Solar Cell using SCAPS-1D.....608	Mohammad Sijanur Rahaman Robin, Mohamed Mansoor Mohamed Rasmi, Md. Shakowat Zaman Sarker and A. S. M. Rabbi Al Mamun
116.	1482	BER performance analysis of a MC-DS-CDMA wireless communication system with rake receiver employing MRC under Nakagami - m fading.....613	Anupama Tasneem and Satya Prashad Majumder
117.	1484	Numerical Simulation of CdS/CdTe Tandem Solar Cell with Addition of ET-HBL.....618	Al Amin
118.	1487	BER and CCDF Performance Analysis of DCT-SCFDMA System using Pulse Shaping Filter.....622	Md. Rabiul Hossain and Kazi Tanvir Ahmmed
119.	1488	Adaptive Neuro-Belief Rule Based Diabetes Diagnosis System.....N/A	Saifur Rahaman
120.	1491	Suppression of White and Colored Noise in Bangla Speech Using Kalman Filter.....628	Muhammad Navid Anjum Aadit, Sharadindu Gopal Kirtania and Mehnaz Tabassum Mahin

### **List of all Accepted Poster Papers**

S/No.	Paper ID	Title of the Paper	Author(s)
1.	1066	Machine-to-machine Communication Based Smart Home Security System by NFC, Fingerprint, and PIR Sensor with Mobile Android Application.....634	Sayidul Morsalin, M. Jahirul Islam, Golam R. Rahat, Syed R. H. Pidim, Abdur Rahman and Md. A. B. Siddiqe
2.	1089	Hybrid Neural Network for Efficient Training.....N/A	Md. Billal Hossain, Sayeed Islam, Noor-e-Hafsa Zhumur and Najmoon Nahar Khanam
3.	1120	Design and Simulation of High Efficiency $Al_xGa_{1-x}As/Ga_{0.47}In_{0.53}As_yP_{1-y}$ Bandgraded 2-J Tandem Solar Cell.....640	Mohammad Zawad Ali and Turja Nandy
4.	1137	Developing Demand Side Management Program for Commercial Customers: A Case Study.....645	Md. Aminur Rahman, Riazul Islam, Kazi Fatima Sharif and Tareq Aziz
5.	1175	Efficiency Improvement of Organic Light Emitting Diodes (OLEDs) Using Micro/Nano-Structures.....651	Md. Shamim Ahsan, Md. Rezvi Hossain, Sabiha Mehbuba, K. M. Sarif Islam, Md. Ziaul Amin, and Ik-Bu Sohn
6.	1245	A New Method of Reversible Data Hiding Based on Compressed Gray Level Histogram Shifting.....657	Tanwi Biswas, Md. Mehedi Hasan and Tanoy Debnath
7.	1258	Design and Measurement of a flexible Implantable Stripline-Fed Slot Antenna for Biomedical Applications.....663	Tajwar Abrar Aleef and Akash Biswas
8.	1267	License Plate Detection and Character Recognition System for Commercial Vehicles based on Morphological Approach and Template Matching.....668	Animesh Chandra Roy, Muhammad Kamal Hossen and Debashis Nag
9.	1274	Study of Molybdenum Sulphide as a Novel Buffer Layer for CZTS Solar Cells.....674	Mrinmoy Dey, Maitry Dey, Samina Alam, Nipu Kumar Das, M. A. Matin and Nowshad Amin
10.	1296	A Polarization Maintaining Hexagonal Photonic Crystal Fiber for Residual Dispersion Compensation.....678	M. R. Hasan, M. S. Anower, M. M. Rashid and S. Ali
11.	1324	A Novel Modified SFTA Approach for Feature	Md. Junayed Hasan, Jia Uddin and

		Extraction.....684	Subroto Nag Pinku
12.	1328	A Comparative Analytical Approach for Gate Leakage Current Optimization in Silicon MOSFET: A Step to More Reliable Electronic Device.....689	Asif Abdullah Khan, Arun Audhikary, Md. Fahim-Al-Fattah, Md. Ashiqul Amin and Rajesh Nandi
13.	1343	Developing Load Profile for Domestic Customers of Dhaka City through Statistical Prediction.....694	Abidur Rahman and Syed Ishraq Chowdhury Arnob
14.	1363	Throughput Analysis of Narrowband Cognitive Radio Networks for Fading Channels.....700	Sk. Shariful Alam, Juthika Chowdhury, M. R. Rashed, Sariha Anjuman and Roksana Zaman
15.	1403	Determining 2D shape of object using Ultrasonic Sensor.....705	Rechie Ranaisa Daru, Hridoy Biswas, Shuvrodeb Barman and Al-Quabid Ahmed
16.	1444	Performance Analysis of a Power Line Channel for Multipath Propagation.....710	Mubdiul Islam Rizu, Jerin Tasnim, Sadat Hasan and Rakin Irshad Alvi
17.	1445	PITCHY: A Pitch Controller to Minimize Frequency Fluctuation in Hybrid Power Systems.....714	Shafinaz Islam, Shabnam Ferdous and Md. Rafiqul Islam Sheikh