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	Session ID: MonA2 Session: Photovoltaics – II Monday, 11:00AM – 01:00PM, 22 December 2014	4, Room: Surma II & III
P-ID	Session Chair: Sharif Mohammad Mominuzzam: TITLE	an, BUET, Bangladesh AUTHOR(S)
082	Prospects of Zinc Sulphide as an Alternative Buffer Layer for CZTS Solar Cells from Numerical Analysis 504	Faiazul Haque, Naveed Aziz Khan, Kazi Sajedur Rahman, Mohammad Aminul Islam, Mohammad Mezbaul Alam, Kamaruzzaman Sopian and Nowshad Amin
106	Design Optimization of CdTe Thin Film Solar Cells from Numerical Analysis 508	Naveed Aziz Khan, Kazi Sajedur Rahman, Faiazul Haque, Nripen Dhar, Mohammad Aminul Islam, Mohammad Akhtaruzzaman, Kamaruzzaman Sopian and Nowshad Amin
192	Modeling Combined Effect of Temperature and Irradiance on Solar Cell Parameters by MATLAB/Simulink 512	Partha Sarathi Paul, Sudipta Mondal, Nasrin Akter and Sharif Mohammad Mominuzzaman
248	Design and Analysis the Characteristics of A Cost- Effective Polymer Based Bulk Heterojunction Tandem Solar Cell 516	Md. Jubaer Hossain Pantho, Noor A Junnat and Mohammad Jahangir Alam
251	Modeling and Analysis of Inorganic, Organic and Hybrid Solar Cells 520	Nasrin Akter, Partha Sarathi Paul, Sudipta Mondal and Sharfi Mohammad Mominuzzaman
355	Thickness Optimization and Composition Grading Effect in Heterojunction CIGS Solar Cell 524	Ayed Al Sayem, Yeasir Arafat and Md. Mushfiqur Rahman
363	The Effect of the Variation of the Concentration Factor and Interdot Distance of In _x Ga _{1-x} N/GaN QD-IBSC 528	Nezam Uddin, Kazi Nymul Haque, Atiqul Islam, Niloy Chandra Saha and Sushanta Paul

Session ID: MonB2 Session: High Voltage Engineering and Power Systems -II Monday, 11:00AM - 01:00PM, 22 December 2014, Room: Surma I Session Chair: Md. Quamrul Ahsan, BUET, Bangladesh		
P-ID	TITLE	AUTHOR(S)
104	Voltage Stability Management with the Help of Optimization Techniques 532	Md. Imran Azim, Md. Masud Rana and Jawad Tahmeed Bin Taufik
283	Power System Stabilizer Tuning Based on Frequency Response Method 536	Asif Ferdoush and M. G. Rabbani

332	Transient Performance Improvement of Power	Md. Shafiullah, Md. Shafiul
	System by Optimal Design of SVC Controller	Alam, Md. Ismail Hossain and
	Employing Genetic Algorithm 540	Md. Nazmul Hasan
333	Analytical Approach to Investigate the Stability of a	Mohammad Tawhidul Alam
	System with Simultaneous AC-DC Power Flow	and Quamrul Ahsan
	through Existing AC Transmission Line 544	
407	Load Frequency Control of Multi-Microgrid Using	A. Hasib Chowdhury and Md.
	Energy Storage System 548	Asaduz-Zaman
408	Parameterization of Active Disturbance Rejection	Md. Mijanur Rahman and A.
	Controller for Load Frequency Control 552	Hasib Chowdhury

	Session ID: MonC2 Session: Electromagnetics, Microwave and RF Engineering – II Monday, 11:00 AM – 01:00PM, 22 December 2014, Room: Chitra Session Chair: Pran Kanai Saha, BUET, Bangladesh		
P-ID	TITLE	AUTHOR(S)	
196	A Fully Integrated Low Power UWB LNA Using Self-Body-Bias Technique for 6.2–10.6 GHz Applications 556	Mohammad Nahidul Karim, Shahadat Hossain, Simul Barua, Koushik Barua and Kazi Raisul Islam	
280	An Ultra Wide Band Low Noise Amplifier for 10.8 to 20.1 GHz Applications 560	Md. Saiful Arefin Mojumder, Md. Sariful Islam and M. Ziaur Rahman Khan	
425	ELC Resonator Based Narrow Band Metamaterial Absorber 564	Md. Washim Zayed, Md. Shafuzzaman and Md. Osman Goni	
451	A New Approach to Design Microstrip Low Pass Filter Using Novel Defected Ground Structure 568	G. M. Rafiquzzaman, Abu Talha Sadi and Md. Nurunnabi Mollah	
079	Design of a Compact Dual-Band Band-Pass Filter for Global Positioning System and Fixed Satellite Applications 572	Md. Rokunuzzaman, Mohammad Tariqul Islam, Md. Samsuzzaman, Md. Rasheduzzaman, Rezaul Azim and Afaz Uddin Ahmed	
395	Electromagnetic Wave Propagation Characteristics in Single Walled Metallic Carbon Nanotube 575	Md Shantanu Islam, M A Matin and M. Mofazzal Hossain	

	Session ID: MonD2 Session: Renewable Energy – I Monday, 11:00 AM – 01:00PM, 22 December 2014, Room: Meghna Session Chair: Tapan Saha, University of Queensland, Australia		
P-ID	TITLE	AUTHOR(S)	
030	Minimization of Output Fluctuation of a Fixed Speed IG Based Wind Farm without Capacitor by using PMSG 579	Md. Rafiqul Islam Sheikh and Zinat Tasneem	
035	A Probabilistic Index for Estimating Frequency Response of a Power System with High Wind Power Penetration 583	Nahid-Al-Masood, Ruifeng Yan and Tapan Kumar Saha	
036	Estimation of Maximum Wind Power Penetration Level to Maintain an Adequate Frequency Response in a Power System 587	Nahid-Al-Masood, Ruifeng Yan and Tapan Kumar Saha	

261	Voltage Stability Augmentation of IG Based Wind Farm Using Capacitor with Exciter Control System 591	Dristi Datta and Md. Rafiqul Islam Sheikh
357	A Competitive Framework to Regulate Day-Ahead Wind Power Predictions for Operational Planning in Electricity Markets 595	Lazaros Exizidis, Zacharie De Greve, Francois Vallee and Jacques Lobry
141	Lightning Surge Response of Wind Turbine Grounding at Low Resistivity Soil 599	Md. Raju Ahmed and Utpal Kumar Das

	Session ID: MonE2 Session: Power Electronics Monday, 11:00 AM – 01:00PM, 22 December Session Chair: Kazi Mujibur Rahman, BUI	2014, Room: Titas
P-ID	TITLE	AUTHOR(S)
093	Wide Speed Range Operation of PMSM Drives Using Nonlinear Flux Control Techniques 603	Garin M. Schoonhoven and Mohammad Nasir Uddin
151	Modeling and Transient Performance Analysis of a Hysteresis IPM Motor 607	S. F. Rabbi and M. A. Rahman
409	Development of a Microcontroller-Based AC Voltage Controller with Soft Start Capability N/A	Arifur Rahman, Nayeem Ansari, Nazneen Ahmed, Kazi Mujibur Rahman and Md. Zahurul Islam
416	Comparative Analysis of Control Schemes with Harmonic Characteristics for Fuel Cell System 615	Md. Ashifur Rahman, Mohammad Hasanuzzaman Shawon and Md. Ikramul Hasan Sohel
424	Study of Vienna Rectifier and a Highly Efficient Single Phase Two Stage Inverter with low THD 619	Srabanty Ahmed Shaon and K. M. A. Salam
519	Split Inductor Based Neutral Point Clamped Inverter Using Improved Modulation Technique to Reduce Common Mode Voltage 623	Md. Jannatul Ferdous, Shariar Kabir, Md. Rifat Alam Siddique and Umme Salma

Prayer and Lunch Break, Monday, 01:00 PM - 02:30 PM, 22 December 2014 Balcony and CIAO

	Session ID: MonA3 Session: High Voltage Engineering and Power Systems – III Monday, 02:30PM – 04:30PM, 22 December 2014, Room: Titas Session Chair: S. Shahnawaz Ahmed, BUET, Bangladesh		
P-ID	TITLE	AUTHOR(S)	
393	Simulation of Lightning Surge Characteristics on Reduced Scale Tower Model N/A	Md. Salah Uddin Yusuf and Mohiuddin Ahmad	
399	Aberrant Amplification of Torsional Oscillating Torques in Turbine-Generator Shaft Due to Multiple EAF Operation 631	Md. Minarul Islam and A. Hasib Chowdhury	
400	Vulnerable Operation of Turbine-Generator Due to EAF Loads in Bangladesh Power System 635	A. Hasib Chowdhury and Md. Minarul Islam	

415	Effect of Intermediate Substation Configurations on Reliability of Power Transmission Corridor 639	A. Hasib Chowdhury, Partha Sarathi Sarker, K.M. Rafiqul Islam and Syeda Tahsina Tanjil
454	A Voltage Flicker Severity Analysis Module for Multiple Electric Arc Furnace Operation 643	Abul Hasan Fahad, Pertha Protim Dutta and Abdul Hasib Chowdhury
480	A Comparative Study of Short Term Flicker Severity Due to Electric Arc Furnace Operation 647	Pertha Protim Dutta, Abul Hasan Fahad and Abdul Hasib Chowdhury
500	Reliability Evaluation of Grid Substations in Bangladesh Power System 651	Md Iqbal Hossain, Rumana Binte Faruque and A Hasib Chowdhury

Session ID: MonB3 Session: Nanoelectronic Devices - III Monday, 02:30PM - 04:30PM, 22 December 2014, Room: Surma II & III Session Chair: Md. Rafiqul Islam, KUET, Bangladesh		
P-ID	TITLE	AUTHOR(S)
Invited Talk-3	CMOS Compatible Generic Batch Process towards Flexible Memory on Bulk Monocrystalline Silicon (100) 655	Mohamed Ghoneim, Jhonathan Rojas, Arwa Kutbee, Amir Hanna, and Muhammad Hussain Integrated Nanotech. Lab Electrical Engineering, Mathematical Science and Engineering Division KAUST, Thuwal Saudi Arabia
045	Ballistic Performance Comparison of InGaSb and InAsSb XOI nFET 659	Md. Nur Kutubul Alam, Muhammad Shaffatul Islam and Md. Rafiqul Islam
173	Influence of Band Parameter of Gate Dielectrics on the Ballistic Performance at Same EOT 663	Md. Nur Kutubul Alam, Muhammad Shaffatul Islam and Md. Rafiqul Islam
259	Ballistic Transport Characteristic of InGaAs Quantum Well Surface Channel MOSFET Including Effects of Physical Device Parameter 667	Abir Shadman, Ehsanur Rahman, Sudipta Romen Biswas, Kanak Datta and Quazi D.M. Khosru
275	Quantum Ballistic Simulation Study of In _{0.7} Ga _{0.3} As/InAs/In _{0.7} Ga _{0.3} As Quantum Well MOSFET 671	Sudipta Romen Biswas, Kanak Datta, Abir Shadman, Ehsanur Rahman and Quazi D. M. Khosru
356	Nano-bridge Enabled Three-Dimensional Gate-all- around Field Effect Transistors 675	Jin Yong Oh, Hyun-June Jang, Won-Ju Cho, Jong-Tae Park and M. Saif Islam
115	Study on Gate Dielectric for Ballistic III-V MOSFET: Influence of Band Parameter Keeping Same EOT N/A	Muhammad Shaffatul Islam, Md. Nur Kutubul Alam and Md. Rafiqul Islam

Session ID: MonC3 Session: Biomedical Signal Processing Monday, 02:30PM – 04:30PM, 22 December 2014, Room: Meghna Session Chair: Md. Aynal Haque, BUET, Bangladesh		
P-ID	TITLE	AUTHOR(S)
157	A High Accuracy Continuous Wavelet Function 683 Approximation for Implantable Device Applications	Qingyun Ma and Mohammad Rafiqul Haider
271	Dermatological Disease Detection using Image Processing and Artificial Neural Network 687	Rahat Yasir, Md. Ashiqur Rahman and Nova Ahmed
286	Direct Strain Estimation for Ultrasound Elastography Using Peak Frequency Ratio of Radiofrequency Echo Signals 691	Abu Shahir Md. Khalid Hasan, Raziur Rahman and Mohammad Ariful Haque
375	Bessel K-Form Parameters in the Dual Tree Complex Wavelet Transform Domain for the Detection of Epilepsy and Seizure 695	Anindya Bijoy Das and Mohammed Imamul Hassan Bhuiyan
432	Connected Component Based ROI Selection to Improve Identification of Microcalcification from Mammogram Images N/A	Md. Enamul Haque, K.M Imtiaz- Ud-Din, Muntasir Rahman and Aminur Rahman
512	Motor Imagery EEG Signal Classification Scheme Based on Entropy of Intrinsic Mode Function 703	Md. Toky Foysal Talukdar, Shahnewaz Karim Sakib, Celia Shahnaz and Shaikh Anowarul Fattah
530	Efficient Event Related Oscillatory Pattern Classification for EEG Based BCI Utilizing Spatial Brain Dynamics 707	Simanto Saha and Khawza I. Ahmed

Session ID: MonD3 Session: Renewable Energy – II Monday, 02:30PM – 04:30PM, 22 December 2014, Room: Surma I Session Chair: Aminul Hoque, BUET, Bangladesh		
P-ID	TITLE	AUTHOR(S)
223	Biomass Quality Analysis for Power Generation 711	A.H.M. Kamal, Md. Mahbubur Rahman, Md. Mohaiminul Haque, Salman Sadiq and Aminul Hoque
472	A New Technique to Improve the Linear Generator Designed for Oceanic Wave Energy Conversion 714	Omar Farrok and Md. Mortuza Ali
027	Power Generating Slabs: Lost Energy Conversion of Human Locomotive Force Into Electrical Energy 718	Rajesh Kumar Datta and Sazid Rahman
107	Minimization of Output Fluctuations of Hybrid Power System by Using Modified Pitch Controller 722	Md. Rafiqul Islam Sheikh, Dristi Datta and Md. Selim Reza Ashrafi
222	Hybrid Power System: Biomass and Diesel 726	A.H.M. Kamal, Md. Mahbubur Rahman, Md. Mohaiminul Haque, Salman Sadiq and Aminul Hoque

131	Design and Optimal Cost Analysis of Hybrid Power	Amit Kumar Sikder, Nishat
	System for Kutubdia Island of Bangladesh 729	Anjum Khan and Aminul
		Hoque

	Session ID: MonE3 Session: Control and Robotics Monday, 02:30PM – 04:30PM, 22 December 2014, Room: Chitra Session Chair: Shaikh Anowarul Fattah, BUET, Bangladesh		
P-ID	TITLE	AUTHOR(S)	
289	Fault Detection of Brahmanbaria Gas Plant using Neural Network 733	Md Tanvir Sowgath and Suman Ahmed	
445	Interconnected Systems with "Mixed" Passivity and Negative-Imaginary Properties: A Stability Analysis in Discrete-time 737	Md. Arifur Rahman, Abdullah Al Mamun and Sajal K. Das	
460	Evaluating the Performance of Optimal Control based Sensor Deployment Algorithms for Realistic Terrain Model 741	Taynan Sabri Helal, Pritom Mozumdar and Lutfa Akter	
170	Robust Control of Robot Manipulator Based on Estimation of Upper Bounds on Parametric Uncertainty 745	Amol A. Khalate, Rajeeb Dey and Goshaidas Ray	
364	Design of Non-fragile Controller for Motion Control of Robot Manipulator 749	K.J. Binoo, Sabyasachi Sengupta and Goshaidas Ray	
019	Self-Localization of a Mobile Robot Using Monocular Vision of a Chessboard Pattern 753	Parvez Ahmmed, Zabir Ahmed, Mohammad Ishfaque Jahan Rafee, M A Awal and Sajid Muhaimin Choudhury	
112	Control Input Converter for Robot's Leg Joint with Parallel Actuation Configuration 757	Addie Irawan, Hoe Lih Jiun and Md Moktadir Alam	

Prayer and Tea Break, Monday, 04:30PM - 05:30PM, 22 December 2014 Surma Foyer

Session ID: MonA4 Session: Electromagnetics, Microwave and RF Engineering-III Monday, 05:30PM – 07:00PM, 22 December 2014, Room: Meghna Session Chair: Md. Saifur Rahman, BUET, Bangladesh		
P-ID	TITLE	AUTHOR(S)
359	Improvement of the Detection Range of a Chipless RFID for UWB system Using Receiver Diversity with Maximal Ratio Combining 761	Khalid Mahmud and S.P Majumder
492	A Brief Overview of Chipless RFID Sensors with EM Transduction 765	Shuvashis Dey, Emran Md Amin, Jhantu Kumar Saha and Nemai Chandra Karmakar
533	A Local Phase Correction Method to Mitigate Mode Conversion in Coupled Transmission Line Bends 76	Mohammed Ershad Ali 9
048	Analysis of Improving the Detection Capability of RADAR in Presence of Jammer by Controlling Radar Effective Temperature 773	Md. Maynul Islam, Mubdiul Islam Rizu and Jerin Tasnim Himi

Session ID: MonB4 Session: Algorithms and Computations-II Monday, 05:30PM - 07:00PM, 22 December 2014, Room: Surma I Session Chair: Md. Monirul Islam, BUET, Bangladesh		
P-ID	TITLE	AUTHOR(S)
281	Bangla License Plate Reader for Metropolitan Cities of Bangladesh Using Template Matching 776	Raiyan Abdul Baten, Zunaid Omair and Urmita Sikder
071	Complexity Measurement: A New Approach to Ensure Equal Distribution of Programming Problems for Evaluation 780	Golam Md. Muradul Bashir, Samrat Kumar Dey, S. S. M. Tariq and Md. Shariful Islam
049	State Space Least Mean Fourth Algorithm 784	Arif Ahmed, Muhammad Moinuddin and Ubaid Al- Saggaf
189	Particle Filter Based Attitude Matching Algorithm for in–Flight Transfer Alignment 788	Suvendu Chattaraj and Abhik Mukherjee

Session ID: MonC4 Session: Nanoelectronic Devices – IV Monday, 05:30PM – 07:00PM, 22 December 2014, Room: Surma II & III Session Chair: Md. Ziaur Rahman Khan, BUET, Bangladesh		
P-ID	TITLE	AUTHOR(S)
513	p-i-n Solar Cell Modeling with Graphene as Electrode 792	Mohammad Wahiduzzaman Khan, Tanmoy Das Gupta and Samia Subrina
401	Effects of Physical Parameters on Subthreshold Characteristics of Nitride and Antimonide-Based Double Material Gate (DMG) HEMTs 796	Arman-Ur-Rashid, Md. Aynal Hossain, Tanvir Rahman and Farseem Mannan Mohammedy
520	Estimating the Transit Time of an Al _y Ga _{1-y} As HBT in the Gaussian Doped Base Region for Low to Moderately High Level of Injection 800	Nusrat Jahan, Rowshon Ara Mannan, Priyanka Biswas and Yeasir Arafat
327	An Analytical Model of Minority Carrier in Exponentially Doped Solar Cell under Illumination 804	Bishwajit Debnath, Topojit Debnath, Mokter Mahmud Chowdhury and M. Ziaur Rahman Khan
262	Capacitance-Voltage Characterization and Semiclassical Transport Analysis of $In_xGa_{1-x}As$ Surface Channel Quantum Well MOSFET 808	Ehsanur Rahman, Abir Shadman, Kanak Datta, Sudipta Romen Biswas and Quazi D.M. Khosru
076	Control of Reflection through Epsilon near Zero Graphene based Anisotropic Metamaterial 812	Ayed Al Sayem, Arif Shahriar Arif, Mahdy Rahman Chowdhury Mahdy and Md. Saifur Rahman

Session ID: MonD4 Session: Power Electronics – II Monday, 05:30PM – 07:00PM, 22 December 2014, Room: Titash Session Chair: Mohammad Jahangir Alam, BUET, Bangladesh		
P-ID	TITLE	AUTHOR(S)
159	Data Logging and Energy Consumption Analysis of Two Houses in St. John's, Newfoundland 816	Tasnova Alam Jesha and M. Tariq Iqbal
043	Switched Capacitor Based Soft-Switching DC-DC Boost Converter for High Voltage Gain 820	Md. Rifat Alam Siddique, Md. Jannatul Ferdous and Istiaque Islam
459	Design of a Charge Controller Based on SEPIC and Buck Topology Using Modified Incremental Conductance MPPT 824	Taohid Latif and Syed R. Hussain
187	Reliable Fault Diagnosis of Induction Motors using 2D Signal Processing Techniques N/A	Jia Uddin, Md. Rashedul Islam and Jong-Myon Kim

Session ID: MonE4 Session: Engineering Education Monday, 05:30PM – 07:00PM, 22 December 2014, Room: Chitra Session Chair: M. M. Shahidul Hassan, BUET, Bangladesh		
P-ID	TITLE	AUTHOR(S)
055	Laboratory-Based Project-Oriented Introductory	Wayne Blanding and Kala
	Course for Electrical Engineering 832	Meah
074	Mobile Interactive Problem Solving for Active	Mohammad Muztaba Fuad,
	Teaching and Learning 836	Debzani Deb and Shequi'lla
		Whitaker
360	University-Industry Research Collaboration 840	Nemai Chandra Karmakar

Best Paper Awards and Closing Ceremony Monday, 07:00PM - 07:30PM, 22 December 2014 Room: Surma I, II & III