







Video Collaborator

International Conference on Innovations in Science, Engineering and Technology 2022 (ICISET 2022)

Program Schedule

All times in BST (GMT +6:00 hrs)

Programs at a glance (Page: 1-2)

Friday, 25 February 2022		
Time	Program	Venue
10:00 - 12:30	Inaugural Ceremony	IIUC Auditorium
18:30 - 20:00	University Industry Collaboration Program	Online
	Panel Discussion on IoT and Automation in Industries	
	Organized by: IEEE IUC Student Branch &	
	IEEE Women in Engineering IIUC Branch	
20:30 - 21:30	Parallel Tutorial Sessions	Online

Saturday, 26 February 2022		
Time	Program (Online Sessions)	
09:00 - 10:30	Plenary Session 1	
09:00 - 10:30	Plenary Session 2	
10:30 - 11:00	Break	
11:00 - 13:00	Plenary Session 3	
11:00 - 13:00	Plenary Session 4	
13:00 - 14:30	Prayer and Lunch Break	
14:30 - 16:00	TS-1A: Computer Vision with Deep Learning - 1	
14:30 - 16:00	TS-1B: Machine Learning - 1	
14:30 - 16:00	TS-1C: Algorithms and Signal Processing	
14:30 - 16:00	TS-1D: Power and Energy System-1	
14:30 - 16:30	TS-1E: Electronics and Materials Science - 1	
14:30 - 16:30	TS-1F : Antenna and Electromagnetism - 1	
14:30 - 16:30	TS-1G: Pharmacy	
16:30 - 17:00	Prayer and Refreshment Break	
17:00 - 17:45	Plenary Session 6	
17:45 - 18:30	Prayer and Refreshment Break	
18:30 - 20:00	TS-2A: Computer Vision	
18:30 - 20:00	TS-2B: Machine Learning - 2	
18:30 - 20:00	TS-2C: Information Systems	
18:30 - 20:00	TS-2D: Power and Energy System - 2	
18:30 - 20:00	TS-2E: Electronic and Materials Science - 2	
18:30 - 20:00	TS-2F: VLSI and Embedded System	

Sunday, 27 February 2022		
Time	Program (Online Sessions)	
09:00 - 10:30	Plenary Session 7	
09:00 - 10:30	Plenary Session 8	
10:30 - 11:00	Break	
11:00 - 13:00	Plenary Session 9	
11:45 - 13:00	Plenary Session 10	
13:00 - 14:30	Prayer and Lunch Break	
14:30 - 16:00	TS-3A: Computer Vision with Deep Learning - 2	
14:30 - 16:00	TS-3B: Machine Learning - 3	
14:30 - 16:00	TS-3C: Natural Language Processing	
14:30 - 16:00	TS-3D: Power and Energy System - 3	
14:30 - 16:00	TS-3E: Embedded System and IoT - 1	
14:30 - 16:00	TS–3F: Antenna and Electromagnetism – 2	
16:00 - 16:30	Plenary Session 11	
16:00 - 16:30	Plenary Session 12	
16:30 - 17:00	Prayer and Refreshment Break	
17:00 - 17:45	Plenary Session 5	
17:45 - 18:30	Prayer and Refreshment Break	
18:30 - 20:00	TS-4A: Computer Vision with Deep Learning – 3	
18:30 - 20:00	TS-4B: Machine Learning - 4	
18:30 - 20:00	TS-4C: Power and Energy System - 4	
18:30 - 20:00	TS-4D: Embedded System and IoT - 2	
18:30 - 20:00	TS-4E: Optical Communication and Blockchain	
18:30 - 20:00	TS-4F: Environmental Science and Civil Engineering	
18:30 - 20:00	Session with IEEE Bangladesh Section	

Monday, 28 February 2022		
Time	Program	Venue
10:00 - 12:30	Closing Ceremony	IIUC Auditorium

^{*} The Inaugural Ceremony will be livestreamed from the following Facebook pages:

https://www.facebook.com/iiuc.ac.bd

https://www.facebook.com/ICISET2022

https://www.facebook.com/ieeeiiucsb

26 February 2022, Saturday (Page: 3-13)

Plenary Session 1		
Date: Saturday, 26 February 2022	Time: 09:00 - 10:30	
Zoom Link: https://bdren.zoom.us/j/67351165548 Mee	eting ID: 673 5116 5548	
Session Chairs:		
Prof. Dr. Nur Mohammad, Chittagong University of Engineering and Technology		
Prof. Dr. Engr. Muhammad Abu Eusuf, International Islamic University Chittagong		
Moderators:		
Md. Mahiuddin, CSE, IIUC (Convener)		
Dr. Md. Aasim Ullah, EEE, IIUC		
Name of the Speaker	Topic	
Prof. Dr. Tek Tjing Lie, SMIEEE	Hierarchical Control	
Deputy Head of School Auckland University of Technology	Strategies for DC Microgrids	
(AUT)	Clusters: A Review	
Electrical and Electronic Engineering, Auckland, New Zealand		
Prof. Dr. Faisal Hossain, Fellow AMS	Producing More with Less	
John R Kiely Endowed Professor	using Sensing, Information	
Civil and Environmental Engineering	Technology and Machine	
University of Washington, Seattle, USA	Learning	
Plenary Session 2		
Date: Saturday, 26 February 2022 Time: 09:00 - 10:30		
Zoom Link: https://bdren.zoom.us/j/66934221440 Mee	eting ID: 669 3422 1440	
Zoom Link: https://bdren.zoom.us/j/66934221440 Mee Session Chairs:	eting ID: 669 3422 1440	
Zoom Link: https://bdren.zoom.us/j/66934221440 Mee Session Chairs: Prof. Dr. M. Moshiul Hoque, Chittagong University of Engineering	eting ID: 669 3422 1440 ag and Technology	
Zoom Link: https://bdren.zoom.us/j/66934221440 Med Session Chairs: Prof. Dr. M. Moshiul Hoque, Chittagong University of Engineering Prof. Dr. Muhammad Shahidur Rahman, Shahjalal University of Engineering Prof. Dr. Muhammad Shahidur Rahman, Shahjalal University of Engineering Prof. Dr. Muhammad Shahidur Rahman, Shahjalal University of Engineering Prof. Dr. Muhammad Shahidur Rahman, Shahjalal University of Engineering Prof. Dr. Muhammad Shahidur Rahman, Shahjalal University of Engineering Prof. Dr. Muhammad Shahidur Rahman, Shahjalal University of Engineering Prof. Dr. Muhammad Shahidur Rahman, Shahjalal University of Engineering Prof. Dr. Muhammad Shahidur Rahman, Shahjalal University of Engineering Prof. Dr. Muhammad Shahidur Rahman, Shahjalal University of Engineering Prof. Dr. Muhammad Shahidur Rahman, Shahjalal University of Engineering Prof. Dr. Muhammad Shahidur Rahman, Shahjalal University of Engineering Prof. Dr. Muhammad Shahidur Rahman, Shahjalal University of Engineering Prof. Dr. Muhammad Shahidur Rahman, Shahjalal University Ontology (No. 1998) Prof. Dr. Muhammad Shahidur Rahman, Shahjalal University Ontology (No. 1998) Prof. Dr. Muhammad Shahidur Rahman, Shahjalal University Ontology (No. 1998) Prof. Dr. Muhammad Shahidur Rahman Prof. Dr. Muhammad Shahidur Rahma	eting ID: 669 3422 1440 ag and Technology	
Zoom Link: https://bdren.zoom.us/j/66934221440 Med Session Chairs: Prof. Dr. M. Moshiul Hoque, Chittagong University of Engineerin Prof. Dr. Muhammad Shahidur Rahman, Shahjalal University of Moderators:	eting ID: 669 3422 1440 ag and Technology	
Zoom Link: https://bdren.zoom.us/j/66934221440 Med Session Chairs: Prof. Dr. M. Moshiul Hoque, Chittagong University of Engineering Prof. Dr. Muhammad Shahidur Rahman, Shahjalal University of Moderators: Dr. Muhammed J. A. Patwary, CSE, IIUC (Convener)	eting ID: 669 3422 1440 ag and Technology	
Zoom Link: https://bdren.zoom.us/j/66934221440 Med Session Chairs: Prof. Dr. M. Moshiul Hoque, Chittagong University of Engineerin Prof. Dr. Muhammad Shahidur Rahman, Shahjalal University of Moderators: Dr. Muhammed J. A. Patwary, CSE, IIUC (Convener) Mohammad Abdul Kader, EEE, IIUC	eting ID: 669 3422 1440 ag and Technology Science and Technology	
Zoom Link: https://bdren.zoom.us/j/66934221440 Med Session Chairs: Prof. Dr. M. Moshiul Hoque, Chittagong University of Engineering Prof. Dr. Muhammad Shahidur Rahman, Shahjalal University of Moderators: Dr. Muhammed J. A. Patwary, CSE, IIUC (Convener) Mohammad Abdul Kader, EEE, IIUC Name of the Speaker	eting ID: 669 3422 1440 ag and Technology Science and Technology Topic	
Zoom Link: https://bdren.zoom.us/j/66934221440 Med Session Chairs: Prof. Dr. M. Moshiul Hoque, Chittagong University of Engineering Prof. Dr. Muhammad Shahidur Rahman, Shahjalal University of Moderators: Dr. Muhammed J. A. Patwary, CSE, IIUC (Convener) Mohammad Abdul Kader, EEE, IIUC Name of the Speaker Prof. Dr. Xi-Zhao Wang, FIEEE, FCAAI	eting ID: 669 3422 1440 ag and Technology Science and Technology Topic Uncertainty Modelling in	
Zoom Link: https://bdren.zoom.us/j/66934221440 Mee Session Chairs: Prof. Dr. M. Moshiul Hoque, Chittagong University of Engineerin Prof. Dr. Muhammad Shahidur Rahman, Shahjalal University of Moderators: Dr. Muhammed J. A. Patwary, CSE, IIUC (Convener) Mohammad Abdul Kader, EEE, IIUC Name of the Speaker Prof. Dr. Xi-Zhao Wang, FIEEE, FCAAI Vice Director Big Data Institute	eting ID: 669 3422 1440 ag and Technology Science and Technology Topic	
Zoom Link: https://bdren.zoom.us/j/66934221440 Mee Session Chairs: Prof. Dr. M. Moshiul Hoque, Chittagong University of Engineerin Prof. Dr. Muhammad Shahidur Rahman, Shahjalal University of Moderators: Dr. Muhammed J. A. Patwary, CSE, IIUC (Convener) Mohammad Abdul Kader, EEE, IIUC Name of the Speaker Prof. Dr. Xi-Zhao Wang, FIEEE, FCAAI Vice Director Big Data Institute College of Computer Science and Software Engineering	eting ID: 669 3422 1440 ag and Technology Science and Technology Topic Uncertainty Modelling in	
Zoom Link: https://bdren.zoom.us/j/66934221440 Med Session Chairs: Prof. Dr. M. Moshiul Hoque, Chittagong University of Engineerin Prof. Dr. Muhammad Shahidur Rahman, Shahjalal University of Moderators: Dr. Muhammed J. A. Patwary, CSE, IIUC (Convener) Mohammad Abdul Kader, EEE, IIUC Name of the Speaker Prof. Dr. Xi-Zhao Wang, FIEEE, FCAAI Vice Director Big Data Institute College of Computer Science and Software Engineering Shenzhen University, Guangdong, China	g and Technology Science and Technology Topic Uncertainty Modelling in Adversarial Learning	
Zoom Link: https://bdren.zoom.us/j/66934221440 Mee Session Chairs: Prof. Dr. M. Moshiul Hoque, Chittagong University of Engineerir Prof. Dr. Muhammad Shahidur Rahman, Shahjalal University of Moderators: Dr. Muhammed J. A. Patwary, CSE, IIUC (Convener) Mohammad Abdul Kader, EEE, IIUC Name of the Speaker Prof. Dr. Xi-Zhao Wang, FIEEE, FCAAI Vice Director Big Data Institute College of Computer Science and Software Engineering Shenzhen University, Guangdong, China Professor Dr. Shaikh Anowarul Fattah, SMIEEE, FIEB	g and Technology Science and Technology Topic Uncertainty Modelling in Adversarial Learning Multi-perspective Learning	
Zoom Link: https://bdren.zoom.us/j/66934221440 Med Session Chairs: Prof. Dr. M. Moshiul Hoque, Chittagong University of Engineerin Prof. Dr. Muhammad Shahidur Rahman, Shahjalal University of Moderators: Dr. Muhammed J. A. Patwary, CSE, IIUC (Convener) Mohammad Abdul Kader, EEE, IIUC Name of the Speaker Prof. Dr. Xi-Zhao Wang, FIEEE, FCAAI Vice Director Big Data Institute College of Computer Science and Software Engineering Shenzhen University, Guangdong, China	g and Technology Science and Technology Topic Uncertainty Modelling in Adversarial Learning	

Bangladesh

Plenary Session 3	
Date: Saturday, 26 February 2022	Time: 11:00 - 13:00
Zoom Link: https://bdren.zoom.us/j/61785944260	Meeting ID: 617 8594 4260
Session Chairs:	
Prof. Dr. Mohmmad Kaykobad, BRAC University	
Prof. Dr. Muhammad Ahsan Ullah, Chittagong University of	Engineering and Technology
Moderators:	
Mohmmad Abdul Kader, EEE, IIUC (Convener)	
Mohammad Woli Ullah, ETE, IIUC	
Name of the Speaker	Topic
Prof. Dr. Jianqing Wang, FIEEE	Wide Band Human Body
Department of Electrical and Mechanical Engineering	Communication Technology for
Nagoya Institute of Technology	Wearable Robot Control
Nagoya, Japan	
Prof. Dr. Mohamed-Slim Alouini, FIEEE	Towards connecting the
Distinguished Professor	remaining 3+ billion
Electrical and Computer Engineering	
King Abdullah University of Science and Technology, KSA	
Dr. Gökhan Erdemir	A review: Robotic applications
Assistant Professor	for power line inspection
Department of Electrical and Electronics Engineering	
Istanbul Sabahattin Zaim University	
Halkali, Istanbul, Turkey	

Plenary Session	4
Date: Saturday, 26 February 2022	Time: 11:00 - 13:00
Zoom Link: https://bdren.zoom.us/j/68074016629	Meeting ID: 680 7401 6629
Session Chairs:	
Prof. Dr. Md. Abdur Rashid, University of Dhaka	
Prof. Dr. Engr. Muhammad Abu Eusuf, International Isl	amic University Chittagong
Moderators:	
Mohammed Abu Sayeed , Pharmacy, IIUC (Convener)	
Md. Shamim Ahmed, CE, IIUC	
Name of the Speaker	Topic
Prof. Dr. Sisi Zlatanova	Spatial Digital Twins for
President ISPRS TCIV (The International Society for	Sustainable Urban Modelling
Photogrammetry and Remote Sensing)	
Head GRID, School of BE, A.D.A	
Faculty of Built Environment	
University of New South Wales, Sydney, Australia	
Prof. Dr. Md Jamal Uddin	CO releasing molecule-2 protects
Graduate School of Pharmaceutical Sciences	acute kidney injury through HO-1-
Ewha Womens University, Republic of Korea	mitochondrial fitness in mice

Prof. Dr. Man Hee Rhee	Korean Red Ginseng and its
President, The Korean Society of Ginseng	circulation activity
Department of Veterinary Physiology	
College of Veterinary Medicine	
Kyungpook National University, South Korea	

Technical Session: TS-1A		
Session Title: Computer Vision with Deep Learning - 1		
Date: 26 F	ebruary 2022 Time: 14:30 – 16:00	
Zoom Link	k: https://bdren.zoom.us/j/67396089965 Meeting ID: 673 9608 9965	
Session Ch	nairs:	
Prof. Dr. Mo	d. Moshiul Hoque, Chittagong University of Engineering and Technology	
Dr. Md. Azł	ner Uddin, Heriot-Watt University Dubai Campus, UAE	
Session Mo	oderators:	
Shayhan Ai	meen Chowdhury, CSE, IIUC (Convener)	
Jamil As-ad, CSE, IIUC		
Paper ID	Title of the Paper	
167	Recognition of Bangla Sign Language Characters and Digits Using CNN	
	Ar-Raji Billah, Fakhrul Islam Fahad, Saffat Rafiq Raaz, Arnab Saha and Qamrun Nahar Eity	
176	Real Time Hand Gesture Based User Friendly Human Computer Interaction System	
	Koushik Roy, Md. Akiful Hoque Akif	
212	Bangla Sign Language Recognition from Hand Gestures using Convolutional Neural	
	Network	
	Sadia sultana, Umme Subrina Jannat, Rounok Afza Doha, Mohammad Mahadi Hassan, Muhammad J. A	
	Patwary	
217	Bangla Image Captioning with Bidirectional GRU & Attention Mechanism	
	Fatema Tuz Zohora, Zainal Abedin	
448	Deep Learning for Depression Symptomatic Activity Recognition	
	Fariha Anjum, Sadia Alam, Erfanul Hoque Bahadur, Md. Ziaur Rahman, Abdul Kadar Muhammad Masum	

Technical Session: TS-1B		
Session Title: Machine Learning - 1		
Date: 26 February 2022 Time: 14:30 - 16:00		
Zoom Link	k: https://bdren.zoom.us/j/66206664577 Meeting ID: 662 0666 4577	
Session Ch	aairs:	
Prof. Dr. Mohammad Osiur Rahman, University of Chittagong		
Dr. Moham	mad Aman Ullah, International Islamic University Chittagong	
Session Mo	oderators:	
Lutfun Nah	Lutfun Nahar, CSE, IIUC (Convener)	
A.B.M. Yasir Arafat, CSE, IIUC		
Paper ID	Title of the Paper	
375	Prediction of Weight Range of Neonate (Newborn) Using Machine Learning Approach Saleem Adeeba, Banujan Kuhaneswaran, B.T.G.S Kumara	
376	Forecasting of Bank Performance using Hybrid Machine Learning Techniques Ummana Islam, Abdul Kadar Muhammad Masum, Nishat Anjum, ABM Yasir Arafat	
377	Predictive Analysis on University Dropout Rate of Bangladesh in Covid-19 Mia Hossain, Shams Bin Md. Shamim Azad, Md Labib Hossen, Shahidul Islam Khan, Abdul Kadar Muhammad Masum	
436	A novel technique to solve class imbalance problem Israt Jahan Emu, Dilshad Jahin, Subrina Akter, Muhammed J. A. Patwary, Shamima Akter	

Technical Session: TS-1C	
Session Title: Algorithms and Signal Processing	
Date: 26 February 2022 Time: 14:30 – 16:00	
Zoom Link	:: https://bdren.zoom.us/j/64781081648 Meeting ID: 647 8108 1648
Session Ch	airs:
Prof. Dr. Ekramul Hamid, University of Rajshahi	
Dr. Abu No	wshed Chy, University of Chittagong
Session Mo	oderators:
Md. Mahmu	ıdur Rahman, CSE, IIUC (Convener)
Md. Rashed	lul Islam, CSE, IIUC
Paper ID	Title of the Paper
142	Non-linear Power Exponent Effect in GFCC for Bangla and Malay speech Separation
	Md Atiqul Islam
170	Algorithms for model order reduction of structured periodic control system and
	simulations of results
004	Mohammad-Sahadet Hossain, Atia Afroz, Musannan Hossain
324	English character recognition using EEG-based visual stimulations: A machine
	learning analysis
	Md. Safaiat Hossain, Tuhin Hasan, Md Mahmudul Hasan, Md. Mustafizur Rahman, Most. Mahfuza Sabiha
382	Outcomes of Deep Neural Network Hyperparameter Tuning on Bengali Speech
	Token Classification
	Md Rakibul Hasan, Md. Mahbub Hasan, Md Zakir Hossain
467	Emotion state analysis by Electroenchephalogram
	Dil Afroz, Nafiul Hasan

Technical Session: TS-1D		
Session Title: Power and Energy System - 1		
Date: 26 February 2022 Time: 14:30- 16:00		
Zoom Link	k: https://bdren.zoom.us/j/69963899712 Meeting ID: 699 6389 9712	
Session Ch	nairs:	
	odur Razzak, Independent University Bangladesh	
	rafat, International Islamic University Chittagong	
Session Mo		
	am Mostafa, EEE, IIUC (Convener)	
	Shahid Ullah, EEE, IIUC	
Paper ID	Title of the Paper	
3	Power compensation and Voltage flicker control of Solar-wind hybrid microgrid	
	with optimized DSTATCOM using a control technique	
	Md. Mosaraf Hossain Khan, Aasim Ullah, S M Shahnewaz Siddiquee, M. Shafiul Alam, Kallol Biswas, Rafat Bin Ali	
24	Grid Connected Microgrid Fault Current Reduction Using Non-Superconducting	
	Fault Current Limiter	
	Nurul Mostafa Tarek, Aynul Farid Bin Rahim, Md. Rashidul Islam, Md. Fokhrul Hasan, Muhammad Azharul Islam	
279	Numerical Performance Analysis of Solar Parabolic Dish Collector with Different	
	point Focusing Cavity Receiver for Optimizing the Thermal Performance	
	Nahyan Ahnaf Pratik, Md. Hasan Ali, Nafisa Lubaba, Nahid Hasan	
461	Fuzzy Logic Control of Supercapacitor Energy Storage System in a Microgrid A.H.M.A.Rahim	

Technical Session: TS-1E		
	Session Title: Materials Science	
Date: 26 February 2022 Time: 14:30 – 16:00		
Zoom Link:	https://bdren.zoom.us/j/63496418078 Meeting ID: 634 9641 8078	
Session Cha	nirs:	
Prof. Dr. Faruk Hossain, Rajshahi University of Engineering and Technology		
Dr. Md. Tawabur Rahman, Khulna University of Engineering and Technology		
Session Moderators:		
Muhammad Athar Uddin, EEE, IIUC (Convener)		
Dr. Zahid Hasan, EEE, IIUC		
Paper ID	Paper ID Title of the Paper	
9	Analysis of Photovoltaic Parameters for Hot-compressed ZnO Based DSSC Under	
	Illumination and Dark Condition	
	Abdullah Al Mamun, Mohammad Rafiqul Islam, A. A. Abuelwafa, M. Shafiul Alam, T. Soga and M. S. H.	
	Choudhury	
45	Tri-band Nano-Meta Absorber for Solar Energy Harvesting Employed in the Optical	
	Regime	
	Johan Uddin, Md Hasanul Karim, Sultan mahmud, Sikder Sunbeam Islam	
178	Analyzing the Effect of Nickel Tetraphenylporphyrin Doping on the Crystallite	
	Parameters of ZnO Nanoparticles	
	Md Al Saeid Chowdhury, Amran Hossain, Mohammad Rafiqul Islam, M. Shafiul Alam, Tetsuo Soga, Md.	
	Shamimul Haque Choudhury	

235	Measurement Performance of NKN Piezo Material for Powering Shoe-mounted	
	Sensor	
	Md. Ismail Haque, Ryota Yamamoto, Jianqing Wang, Ken-ichi Kakimoto	
501	Optimization of Electrophoretic Deposition Parameters for Uniform ZnO Deposition	
	on Conductive Glass Substrate	
	Md. Muhidur Rahman, Nurul Islam, M. Shafiul Alam, Muhammad Athar Uddin, T. Soga, M. S. H.	
	Choudhury	
503	Electrochemical Impedance Spectroscopy Analysis to Find the Effect of	
	Compression Temperature on the Performance of P25 Based Dye-sensitized Solar	
	Cell	
	M. S. H. Choudhury, Md. Inzamam-Ul-Alam Chowdhury, Md Mohsin Hossain, M. Shafiul Alam,	
	Mohammad Rafiqul Islam, Tetsuo Soga	

Technical Session: TS-1F		
Session Title: Antenna and Electromagnetism - 1		
Date: 26 February 2022 Time: 14:30 - 16:00		
Zoom Link: https://bdren.zoom.us/j/65852934913 Meeting ID: 658 5293 4913		
Session Cha	irs:	
Prof. Dr. Rez	aul Azim, University of Chittagong	
Dr. Touhidu	l Alam, Universiti Kebangsaan Malaysia	
Session Mo	derators:	
Mohammed	Jashim Uddin, ETE, IIUC (Convener)	
Md. Ibrahim, ETE, IIUC		
Paper ID	Title of the Paper	
42	Design and Analysis of Multiband Microstrip Patch Antenna Array for 5G	
	Communications	
	Md Tohedul Islam, Abu Zafar Md Imran, Fahim Chowdhury, Md. Nur Nobe Hridoy, Md. Humayun Kabir,	
1.5	Abdul Gafur, Syed Zahidur Rashid	
46	A New Inverted-L-Shaped EMR Obeying Meta-Atom for C-Band Applications Sikder Sunbeam Islam, Jubaida Nahar Tuli, Sultan Mahmud, Brishty Shil	
49	Terahertz Antenna for Biomedical application.	
	Tanvir Hossain, Masud Parvez, Abu Zafar Md. Imran, Mohammed Jashim Uddin, Abdul Gafur, Syed	
	Zahidur Rashid	
54	A Simple UWB Antenna with WiMAX/WLAN/X Triple Band Rejection Features	
	Mehedi Hasan Chowdhury, Radowanul Haque, Fahad Uddin, Syed Zahidur Rashid, Md Mohiuddin	
61	Soliman, Abdul Gafur Inverted F-Shaped Two-Component META-ATOM for Multiband Application	
01	Jubaida Nahar Tuli, Sultan Mahmud, Sikder Sunbeam Islam	
123	An Epsilon Negative Metamaterial for Dual Band Operation in Microwave Range	
	Md. Shoyab Abdullah Chy, Sultan Mahmud, Shihabun Sakib, Md Abdul Kader, S. S. Islam	
L		

Technical Session: TS-1G		
Session Title: Pharmacy and Biological Science		
Date: 26 February 2022 Time: 14:30 - 16:30		
Zoom Link: https://bdren.zoom.us/j/66851731121 Meeting ID: 66851731121		
Session Chairs:		
Prof. Dr. Sohel Rana, Jahangirnagar University		
Prof. Dr. Mamunur Rashid, Rajshahi University		
Session Moderators:		
	Abu Sayeed, Pharmacy, IIUC (Convener)	
	Ali, Pharmacy, IIUC	
Paper ID	Title of the Paper	
23	Honey as a Promising Lifetime Intradermal Implant for Type 2 Diabetes Mellitus	
	Zahir Uddin Mohammed Babar, Irwandi Jaswir, Hafidz Mahamad Maifiah, Soraya Binti Ismail, Raha	
	Ahmad Raus, Mohammed Abu Sayeed, Arafat Faraque	
25	Potential Role of Magnolol in Managing Neurological Disorders: A Review	
	Nasrin Sultana, Mohammed Abu Sayeed, Marajul Islam	
67	Association between rs1801157 Single Nucleotide Polymorphism of SDF-1 β Gene	
	and Type 2 Diabetes Mellitus in Bangladeshi Population	
	Md. Abdullah Al Mobin, Fayejun Nesa, Mehedi Mala Mitu, Ferdous khan, Khawaza Nazim Uddin, Md.	
	Hasanuzzaman Shohag	
78	In Silico Pharmacokinetic Profiling and Molecular Docking Study of Alpinia calcarata	
	Roscoe to Identify the Major Molecules having Anti-inflammatory and Hypoglycemic	
	Action	
	Abdullah Al Noman, Md. Masudur Rahman	
343	Repression of Multiple Carcinomas by Predicting the AKT2 Inhibition Engaging	
	Machine Learning Methods on Molecular Descriptors	
	Mohammad Badhruddouza Khan, Rahat Shahrior, Ahmed Jebail Meraj, Jannatul Ferdouse Shaky	
356	Secondary Metabolites Phenolic Acid from <i>Azadirachta indica</i> (Neem) to Discovery	
550	of Anti-COVID-19 Drug: <i>In-silico</i> Approach	
	Miah Roney, Mohd Fadhlizil Fasihi Mohd Aluwi	
420	·	
420	A review on potential biological activities of medicinal plants in the management of	
	Covid-19 infection	

Plenary Se	ssion 6
Date: Saturday, 26 February 2022	Time: 17:00 - 17:45
Zoom Link: https://bdren.zoom.us/j/66236783	2992 Meeting ID: 662 3678 2992
Session Chairs:	
Prof. Dr. Md. Sanaullah Chowdhury, University of C	Chittagong
Dr. Shahidul Islam Khan, International Islamic University Chittagong	
Moderators:	
Muhammad Mostafa Amir Faisal, ETE, IIUC (Conve	ener)
Mr. Jamil As-ad, CSE, IIUC	-

Tasmiul Zannat, Md. Ashraf Chowdhury, Jannatun Namme

Name of the Speaker	Topic
Dr. Md. Arafatur Rahman, SMIEEE	Intelligent Networking
Senior Lecturer, School of Mathematics and Computer Science	Connecting towards Multi-
University of Wolverhampton	Domains in Computer
Wulfruna St, Wolverhampton WV1 1LY, United Kingdom	Science & Engineering

Technical Session: TS-2A		
Session Title: Computer Vision		
Date: 26 February 2022 Time:18:30 – 20:00		
Zoom Link: https://bdren.zoom.us/j/64433675411 Meeting ID: 644 3367 5411		
Session Ch	Session Chairs:	
Prof. Dr. Kaushik Deb, Chittagong University of Engineering and Technology		
Dr. Golam	Rabiul Alam, BRAC University	
Session M	oderators:	
	izzaman, CSE, IIUC (Convener)	
Mohamma	d Hasin Abrar, CSE, IIUC	
Paper ID	Title of the Paper	
10	An analysis on SVM and BPNN for CT Patient Table Detection using Distance-verses-	
	angle Signature Feature	
	Kanishka Sarkar, Tanmoy Kanti Halder, Ardhendu Mandal, Progyan Biswas, Simran Aryal, Barnali Kundu, Preyasha Chakraborty	
63	On the Effectiveness of Deep Transfer Learning for Bangladeshi Meat Based Curry	
	Image Classification	
	Minhajur Rahman, Saimunur Rahman, Mohamed Uvaze Ahamed Ayoobkhan	
110	A Robust Webcam-based Eye Gaze Estimation System for Human-Computer	
	Interaction	
	Koushik Roy, Dibaloke Chanda	
165	Computer Vision Based Industrial and Forest Fire Detection Using Support Vector	
	Machine (SVM)	
	Md. Abdur Rahman, Sayed Tanimun Hasan, Mohammed Abdul Kader	

Technical Session: TS-2B		
Session Title: Machine Learning - 2		
Date: 26 F	Date: 26 February 2022 Time:18:30-20:00	
Zoom Link: https://bdren.zoom.us/j/63008049149 Meeting ID: 630 0804 9149		
Session Chairs:		
Dr. Abdul Kader Muhammad Masum, International Islamic University Chittagong		
Dr. Muhammed J. A. Patwary, International Islamic University Chittagong		
Session Moderators:		
Mohammad Manjur Alam, CSE, IIUC (Convener)		
Mohammad Sazid Zaman Khan, CSE, IIUC		
Paper ID	Title of the Paper	
335	Machine Learning Models for Conte	nt Classification in Film Censorship and Rating
	Syma Afsha, Mahmudul Haque, Hussain Nyee	em

344	Boosting Guided Probabilistic Ensemble-based Approach for Phishing Website
	Detection
	Avisheak Das, Fahim Irfan Alam, Sadia Sharmin, Rokan Uddin
409	Benchmarking Unsupervised Machine Learning for Mobile Network Anomaly
	Detection
	Md Rakibul Ahasan, Mohammed Fahim Momen, Mirza Sanita Haque, Mohammad Rubbyat Akram,
	Golam Rabiul Alam, Md Zia Uddin
442	Robust Ensemble Machine Learning for Precision Agriculture
	Majwega Jackson, Ggaliwango Marvin, Amitabha Chakrabarty

Technical Session: TS-2C		
Session Title: Information Systems		
Date: 26 February 2022 Time: 18:30 – 20:00		
Zoom Link: https://bdren.zoom.us/j/67987230849 Meeting ID: 679 8723 0849		
Session Ch	airs:	
	mad Shamsul Arefin, Chittagong University of Engineering and Technology	
Dr. Moham	mad Shafiul Alam, Ahsanullah University of Science and Technology	
Session Mo	oderator:	
Md. Mahiud	ddin, CSE, IIUC (Convener)	
A.B.M. Yasi	r Arafat, CSE, IIUC	
Paper ID	Title of the Paper	
108	A Budget and Nutrition-aware Mobile Application Featuring Food Menu Generation	
	and Monitoring for the School Feeding Programme in Bangladesh	
	Ajoy Deb Nath, Mahfuzulhoq Chowdhury, Mehedi Hassan	
473	A Study on Author Ranking	
	Palash Ranjan Roy, Md. Noushin Islam, Labiba Tasfiya Jeba, Md. Adnanul Haq, Iffat Afsara Prome, Mohammad Kaykobad, Tanvir Kaykobad	
494	A Novel Technique for Predicting The Optimum Time For Reallocating Fragments In	
	MCRUD Based DDBS Using Machine Learning	
	Shahidul Islam Khan, Md. Yeasin Al Azad, Mohammad Jonayed Tanjim	
496	Mining Job description to understand the on-demand skills and expertise in big data	
	& analytics	
	Feras Safi, Md Masbaul Alam Polash	

Technical Session: TS-2D		
Session Title: Power and Energy System - 2		
Date: 26 February 2022 Time: 18:30 – 20:00		
Zoom Link: https://bdren.zoom.us/j/68633283706 Meeting ID: 686 3328 3706		
Session Chairs:		
Prof. Dr. Shahriar Khan, Independent University Bangladesh		
Dr. Sampad Ghosh, Chittagong University of Engineering & Technology		
Session Moderators:		
Engr. Md. Rashidul Islam, EEE, IIUC (Convener)		
Engr. Md. Shahid Ullah, EEE, IIUC		

Paper ID	Title of the Paper	
69	A Real-Time Digital Protection Scheme for VSC-HVDC System with LR Type Solid	
	State Current Limiter Controller	
	M. Shafiul Alam, Aasim Ullah, Fahad Saleh Al-Ismail, Md. Shamimul Haque Choudhury, Yasir Arafat,	
	Mohammad Shoaib Shahriar, S. M. G Mostafa	
116	Different Scenario Analysis of PJM 5- Bus Test System by Changing Load Demand	
	Md. Kamrul Hasan, Nur Mohammad	
257	Stability Enhancement of Western Grid of Bangladesh Using Unified Power Flow	
	Controller	
	Pollen Barua, Muhammad Quamruzzaman, M.G Rabbani	
425	ABO3 Perovskites' Formability Prediction and Crystal Structure Classification Using	
	Machine Learning	
	Minhaj Uddin Ahmad, Abdur Rahman Akib, Md. Mohsin Sarker Raihan, Abdullah Bin Shams	
479	Exponential Moving Average Extended Kalman Filter for Robust Battery State-of-	
	Charge Estimation	
	Hafiz Ahmed, Aasim Ullah	

Technical Session: TS-2E			
Session Title: Electronics and Materials Science			
Date: 26 February 2022 Time: 18:30 – 20:00			
Zoom Link: https://bdren.zoom.us/j/66202686539 Meeting ID: 662 0268 6539			
Session Chairs:			
Prof. Dr. Md. Johurul Islam, Rajshahi University			
Dr. Mohammad Shamimul Haque Choudhury, International Islamic University Chittagong			
	oderators:		
	lasan, EEE, IIUC (Convener)		
	d Athar Uddin, EEE, IIUC		
Paper ID	Title of the Paper		
199	Performance Analysis of n+ Pocket DG-JLFET with SiO ₂ and High-K Oxide Thin Layer		
	for Biomedical Application		
	Md. Mahfuzul Haque, Sheikh Hasib Cheragee		
302	Changes on Forward Recovery among Si, Ge and SiC-Based PiN Diode		
	Kazi Mahamud Al Masum, Tanvir Yousuf Shohag, Md. Shahid Ullah		
332	Inspection of Temperature-Dependent Electrical Attributes of CNTFET Under		
	Ballistic Condition		
	Washik Adnan, Md Ittehad Hasan, Nafisa Anjum, Riffat Ara Islam Ritu, Md Faysal Nayan		
471	Ferromagnetic Core Geometry Effect Analysis on EVs Ground Clearance for Wireless		
	Power Transfer		
	Minhazur Rahman, Fariha Rahman		
505	Noise Figure Modeling Subject to Frequency and Temperature for AlGaN/GaN		
	HEMTs		
	Mohammad Abdul Alim, Ali A. Rezazadeh, Christophe Gaquiere		

Technical Session: TS-2F		
Session Title: VLSI and Embedded System		
Date: 26 February 2022 Time: 18:30 - 20:00		
7		

Zoom Link: https://bdren.zoom.us/j/68968757220 Meeting ID: 689 6875 7220

Session Chais:

Dr. Fakir Sharif Hossain, Ahsanullah University of Science and Technology

Dr. Sajid Muhaimin Choudhury, Bangladesh University of Engineering and Technology

Session Moderators:

Dr. Mohammad Shamimul Haque Choudhury, EEE, IIUC (Convener)

Sayed Allamah Iqbal, EEE, IIUC

Sayou Anaman Iqoa, EEE, Hoc		
Paper ID	Title of the Paper	
68	Area-Efficient Design of a Quantum-Dot Cellular Automata Based Full Adder Having	
	Low Latency	
	Upal Barua Joy, Shourov Chakraborty, Joy Das, Joyonti Das, Afra Tasnim, Shams Jarin	
94	Design and Implementation of Surface Disinfection Robot Using UVC Light and Liquid	
	Sanitizer	
	Fahim Bin Rahman, Anik Das, Md. Fakwer Uddin Mazumder, Imon Deb Nath, Mohammed Abdul Kader	
105	A Wearable Hearing Protection Device for Vehicle Drivers to Mitigate the Impact of	
	Sound Pollution for Noisy Places in Bangladesh	
	Joy James Costa, S.M. Toha Al Kadir, Suchinto Roy Dhrubo, Md. Ferdous Wahid, Zubair Ahmed Ratan	
	Dipta Roy	
119	A High Speed Dynamic Logic Circuit Design with Low Propagation Delay and Leakage	
	Current for Wide Fan-In Gates	
	Md Maharaj Kabir, Fahim Abrar, Md. Rashidul Islam, Riazul Islam, Muhammad Athar Uddin, Abdul Asad	
465	Transient Effect Ring Oscillator PUF Based on Programmable Delay Lines	
	Yangpingqing Hu, Yuqiu Jiang, Weizhong Wang	

27 February 2022, Sunday (Page: 14-23)

Plenary Session 7	
Date: Sunday, 27 February 2022	Time: 9:00 - 10:30
Zoom Link: https://bdren.zoom.us/j/62774423257	Meeting ID: 627 7442 3257
Session Chairs:	
Prof. Dr. Mohammad Shahadat Hossain, University of Chitta	gong
Prof. Dr. Muzahidul Islam, United International University	
Moderators:	
Mr. Shayhan Ameen Chowdhury, CSE, IIUC	
Md. Humayun Kabir , CCE, IIUC	
Name of the Speaker	Topic
Dr. Md Zakirul Alam Bhuiyan, SMIEEE	Is Your Smartphone Smart
Assistant Professor	Enough to Prevent You
Department of Computer and Information Sciences	from Being Watching Through its
Fordham University JMH 334	Wi-Fi: An Up-and-Coming
E Fordham Road, Bronx, NY 10458 USA	Security Concerns?
Prof. Dr. Nikhil R. Pal, FTWAS, FIEEE	Artificial Intelligence -Are we
Electronics and Communication Sciences Unit	ready for "AI everywhere"?
Center for Artificial Intelligence and Machine learning	
Indian Statistical Institute, Calcutta, India	

Plenary Session 8	
Date: Sunday, 27 February 2022	Time: 9:00 - 10:30
Zoom Link: https://bdren.zoom.us/j/69798020885 Mee	ting ID: 697 9802 0885
Session Chairs:	
Prof. Dr. Faruk Hossain, Rajshahi University of Engineering and	Technology
Prof. Dr. Md. Shah Amran, University of Dhaka	
Moderators:	
Mohammad Athar Uddin, EEE, IIUC (Convener)	
Md. Masudur Rahman, Pharmacy, IIUC	
Name of the Speaker	Topic
Professor Dato' Dr. Abu Bakar Abdul Majeed	Intra-Nasal Drug Delivery of
Faculty of Pharmacy &	a Centrally Active Drug
Director, Research Management Centre (RMC)	
Universiti Teknologi MARA, Selangor, Malaysia	
Prof. Dr. A.K.M. Azharul Islam, FInstP, CPhys, FBAS, ISESCO	MAX phases etched into 2D
Laureate	MXene materials:
Professor Emeritus, Department of Electrical and Electronic	Exciting Technological
Engineering and	Horizon
Former Vice-Chancellor, IIUC, Bangladesh	

Plenary Session 9	
Date: Sunday, 27 February 2022	Time: 11:00 - 13:00
Zoom Link: https://bdren.zoom.us/j/62570898492 Meeti	ng ID: 625 7089 8492
Session Chairs:	
Prof. Dr. Md. Saidur Rahman, Bangladesh University of Engineeri	ng and Technology
Prof. Dr. M. Jahirul Islam, Shahjalal University of Science and Tec	hnology
Moderators:	
Mr. Md. Khaliluzzaman, CSE, IIUC (Convener)	
Mr. Muhammed Nazmul Arefin, CSE, IIUC	
Name of the Speaker	Topic
Prof. Dr. Md Atiqur Rahman Ahad, SMIEEE, SMOPTICA	Skeleton and Sensor for
Dept. of Media Intelligent	Healthcare
Osaka University, Japan	
Prof. Dr. Ujjwal Maulik, FIEEE	Data Science and Artificial
Alexander von Humboldt Fellow, Germany, Senior Associate,	Intelligence: Recent Issues
ICTP, Italy,	and Challenges
Department of Computer Science and Engineering	
Jadavpur University, Kolkata, WB, India	
Prof. Dr. Md Raisuddin Khan, SMIEE	Evolutionary Modular Robot
Department of Mechatronics Engineering,	for Versatile Manipulation
International Islamic University Malaysia	
53100 Kuala Lumpur, Malaysia	

Plenary Session 10	
Date: Sunday, 27 February 2022	Time: 11:45 - 13:00
Zoom Link: https://bdren.zoom.us/j/65974709219 Mee	ting ID: 659 7470 9219
Session Chairs:	
Prof. Dr. Muhammad Ahsan Ullah, Chittagong University of Engi	neering and Technology
Dr. Abdul Kadar Muhammad Masum, International Islamic Unive	ersity Chittagong
Moderators:	
Zinnia Sultana, CSE, IIUC (Convener)	
Engr. Md. Jalal Uddin, EEE, IIUC	
Name of the Speaker	Topic
Prof. Dr Celia Shahnaz, SMIEEE, Fellow IEB,	Machine and Deep Learning
Dept. of Electrical and Electronics Engineering,	for Biomedical and
Bangladesh University of Engineering and Technology (BUET),	Healthcare Applications
Bangladesh,	
Prof. Dr. Subarna Shakya, SMIEEE	Security solutions in SAAS
Department of Electronics and Computer engineering	Environment
Pulchowk Campus, Institute of Engineering	
Tribhuvan University, Nepal	

Technical Session: TS-3A			
Session Title: Computer Vision with Deep Learning - 2			
Date: 27 F	Date: 27 February 2022 Time: 14:30 – 16:00		
Zoom Link	x: https://bdren.zoom.us/j/65856839390 Meeting ID: 658 5683 9390		
Session Ch	airs:		
Prof. Dr. Ra	nshed Mustafa, University of Chittagong		
Dr. Md Zia	Uddin, Sintef Digital, Norway		
Session Me	oderator:		
Zinnia Sult	ana, CSE, IIUC (Convener)		
Farzana Ta	snim, CSE, IIUC		
Paper ID	Title of the Paper		
498	Low Light Enhancer: A Low Light Image Enhancement Model Based on U-Net using		
	Smartphone		
	Tahia Binte Chowdhury, Md. Khaliluzzaman, Md. Jashim Uddin, Karnish Khanam, and Md. Monirul Islam		
182	An Efficient and Lightweight Convolutional Neural Network for Carcinogenic Polyp		
	Identification		
	Md. Imrul Kayes, Rashida Feroz Prome, Maria Noor, Shovan Bhowmik, Mamun Ahmed		
395	MRI Brain Tumor Classification Using Deep Convolutional Neural Network		
22.4	Takowa Rahman, Md. Saiful Islam		
334	Developing BrutNet: A New Deep CNN Model with GRU for Realtime Violence		
	Detection Notes to the Market Notes to the Mar		
	Mahmudul Haque, Syma Afsha, Hussain Nyeem		

Technical Session: TS-3B			
	Session Title: Machine Learning - 3		
Date: 27 F	Date: 27 February 2022 Time: 14:30 - 16:00		
Zoom Link	Zoom Link: https://bdren.zoom.us/j/63833746671 Meeting ID: 638 3374 6671		
Session Ch	nairs:		
Prof. Dr. Ce	elia Shahnaz, Bangladesh University of Engineering and Technology		
Dr. Tahsina	a Farah Sanam, Bangladesh University of Engineering and Technology		
Session Mo	oderators:		
Dr. Md. Jan	nshed Alam Patwary, CSE, IIUC (Convener)		
Subrina Ak	ter, CSE, IIUC		
Paper ID	Title of the Paper		
345	Depression Detection in Text Using Long Short-Term Memory-Based Neural		
	Structured Learning		
	Md Zia Uddin		
180	Explainable Augmented Intelligence and Deep Transfer Learning for Pediatric		
	Pulmonary Health Evaluation		
	Ggaliwango Marvin, Md. Golam Rabiul Alam		
221	Machine Learning Approaches to Identify Significant Features for the Diagnosis and		
	Prognosis of Chronic Kidney Disease		
	Nosin Ibna Mahbub, Md. Imran Hasan, Md. Martuza Ahamad, Sakifa Aktar, Mohammad Ali Moni		
160	Explainable AI for Safe Water Evaluation for Public Health in Urban Settings		
Nakayiza Hellen, Ggaliwango Marvin			

313	Predicting Autism Spectrum Disorder (ASD) meltdown using Fuzzy Semi-
	supervised Learning with NNRW
	Sara Karim, Nazina Akter, Muhammad J.A. Patwary

Technical Session: TS-3C			
Session Title: Natural Language Processing			
Date: 27 February 2022 Time: 14:30 – 16:00			
Zoom Link: https://bdren.zoom.us/j/63645346144 Meeting ID: 636 4534 6144			
Session Chairs:			
Dr. Aminul Islam Akhando, Khulna University of Engineering and Technology			
Dr. Md. Shahriar Mahbub, Ahsanullah University of Science and Technology			
	oderators:		
	udur Rahman, CSE, IIUC (Convener)		
	nar, CSE, IIUC		
Paper ID	Title of the Paper		
118	Bengali Hate Speech Detection in Public Facebook Pages		
	Nasif Istiak Remon, Nafisa Hasan Tuli, Ranit Debnath Akash		
175	Sentiment Analysis Using Ensemble Technique on Textual and Emoticon Data		
	Mohammad Aman Ullah, Korimunnesa Munmun, Fatematuz Zohra Tamanna, Md. Shahnur Azad		
	Chowdhury		
288	Exploiting Diverse Contextual Features Through Transformers for Detecting		
	Informative Tweets		
	Abu Nowhash Chowdhury, Shawon Guha, Nuru	rul Amin, Shahidul Islam Khan	
463	Sentiment Analysis on Reviews of E-c	commerce Sites Using Machine Learning	
	Algorithms		
	Md. Jahed Hossain, Dabasish Das Joy, Sowmitro	ra Das, Rashed Mustafa	
495	Bengali Text Categorization Based on	n Deep Hybrid CNN-LSTM Network with Word	
	Embedding		
	Samrat Alam, Md Afnan Ul Haque, Ashiqur Ral	ahman	

Technical Session: TS-3D			
Session Title: Power and Energy System - 3			
Date: 27 Fe	Date: 27 February 2022 Time: 14:30 - 16:00		
Zoom Link: https://bdren.zoom.us/j/69194300984 Meeting ID: 691 9430 0984			
Session Chairs:			
Dr. Md Shat	Dr. Md Shafiullah, King Fahd University of Petroleum and Minerals, KSA		
Dr. Md Alar	ngir Hossain, Griffith University, Aust	ralia	
Session Mo	Session Moderators:		
Dr. Aasim Ullah, EEE, IIUC (Convener)			
Engr. Md. Shahid Ullah, EEE, IIUC			
Paper ID	Title of the Paper		
90	Modified Bi-directional Switching Sy	stem for Unity Power-Factor in Adjustable	
	Speed Drive		
	Tanzim Mushtary		

112	Installation of a Waste to Energy Based Power Plant Incorporating Wind Power for
	Producing Electricity in Chattogram, Bangladesh: A Planning Process
	Jobair Al Rafi, Md. Shakib Hossain, S.M.G. Mostafa, Md. Minhaj Hossain, Minhazul Hoque Tamim
	Chowdhury, Md. Aasim Ullah
404	Hybrid Power Generation Using Speed Breaker
	Md Faiyad Bin Bintu, Mohammad Woli Ullah, Mohammed Ismail Hossain, Muhammad Mostafa Amir
	Faisal, Muhammad Foyazur Rahman
480	Prospects of Smart Metering System in Bangladesh: Cost Benefit Analysis
	Yasir Arafat, Md. Mohibul Hassan, Mahmudul Alam

Technical Session: TS-3E		
Session Title: Embedded System and IoT - 1		
Date: 27 Fe	Date: 27 February 2022 Time: 14:30 - 16:00	
Zoom Link:	Zoom Link: https://bdren.zoom.us/j/61911785534 Meeting ID: 619 1178 5534	
Session Cha	irs:	
Prof. Dr. Sha	mim Ahmad, Rajshahi University	
Prof. Dr. Eng	gr. Muhibul Haque Bhuyan, South East University	
Session Mod	derators:	
Dr. Mohamn	nad Shamimul Haque Choudhury, EEE, IIUC (Convener)	
Dr. Zahid Ha	san, EEE, IIUC	
Paper ID	Title of the Paper	
36	IoT Based Air Quality and Weather Monitoring System with Android Application	
	Ashfaqul Haq, Sayed Sahriar Hasan, Md. Zillur Rahman, Dipesh Das, Ata Ullah	
52	IoT based Automated Examination Management System with Biometric Portal	
	Nadia Tabassum, MD. Shahnauze, Ishita Chowdhury, Uzzal Basu	
71	Microcontroller Based Feeder Protection System from Various Fault Conditions in	
	Distribution Line	
	Y Upal Barua Joy, Shourov Chakraborty, Tanbir Kabir Murad, Afra Tasnim, Bijoy Barua, Joy Das	
72	IoT Based Smart Automatic Water Management System with RF Communication	
	and Remote Monitoring	
	Imon Deb Nath, Md. Fakwer Uddin Mazumder, Md. Naeem Uddin Novel, Mohammed Abdul Kader	
307	Design and Implementation of an IoT-Based Healthcare Monitoring System and	
	Automatic Hand Sanitizer	
	Mohammed Zaki, Mohammed Moinul Islam, S. M.G Mostafa, M. Shafiul Alam, Aasim Ullah	

T	echnical Session: TS-3F	
Session Title:	Antenna and Electromagnetism - 2	
Date: 27 February 2022 Time: 14:30 - 16:00		
Zoom Link: https://bdren.zoom.u Session Chairs:	s/j/66473567791 Meeting ID: 664 7356 7791	
Prof. Dr. Md. Fokhrul Islam, Islamic University of Technology		
Dr. Sikder Sunbeam Islam, Internation	onal Islamic University Chittagong	
•	onal Islamic University Chittagong	
Dr. Sikder Sunbeam Islam, Internation	, ,	

Paper ID	Title of the Paper
74	A 1×2 Rectangular Patch Array Antenna for 6 GHz WiFi Applications
	Himel Kumar Saha, Liton Chandra Paul, Sk. A. Shezan, Rezaul Azim, Azremi Abdullah Al-Hadi
75	A Wideband Inset-fed Simple Patch Antenna for Sub-6 GHz Band Applications
	Liton Chandra Paul, Himel Kumar Saha, Tushar Kanti Roy, Rezaul Azim, M. T. Islam
113	Design of Compact E-Shaped Microstrip Patch Antenna for Wireless Body Area
	Network.
	Umme Afruz, Md. Ahasan Kabir
146	A H-shaped Slotted Circular Patch Antenna for Sub-6 GHz Applications
	Liton Chandra Paul, Md. Tanvir Rahman Jim, Tithi Rani, Md. Shizer Rahman, Md. Samsuzzaman, Rezaul
	Azim
173	An Omni-directional Rectangular Patch Antenna for 5G/WiFi/WiMAX Applications
	Liton Chandra Paul, Md. Tanvir Jim, Tithi Rani, Md Samsuzzaman, Md. Shizer Rahman, Rezaul Azim

Plenary Session 11		
Date: Sunday, 27 February 2022 Time: 16:00 - 16:30 PM		
Zoom Link: https://bdren.zoom.us/j/62727671248	Meeting ID: 627 2767 1248	
Session Chairs:		
Prof. Dr. Raju Ahmed, Dhaka University of Engineering at	nd Technology	
Prof. Dr. M. Mofazzal Hossain, University of Liberal Arts F	Bangladesh	
Moderators:		
Dr. Md. Aasim Ullah, EEE, IIUC (Convener)		
Engr. Khandakar Abdulla Al Mamun, EEE, IIUC		
Name of the Speaker Topic		
Dr. Muzamir Isa	On-Site Partial Discharge	
Associate Professor	Measurement and Characterization	
School of Electrical System Engineering Using Rogowski Coil for Insulation		
Universiti Malaysia Perlis (UniMAP), Malaysia	Condition Monitoring in Medium	
	Voltage Cable	

Dlonowy Consign 12			
Plenary Session 12 Date: Sunday, 27 February 2022 Time: 16:00 – 16:30 PM			
Zoom Link: https://bdren.zoom.us/j/67551290663 Meeting ID: 675 5129 0663			
Session Chairs:			
Prof. Dr. Sitesh Chandra Bachar, University of Dl	ıaka		
Prof. Dr. Mohammed Aktar Sayeed, Internationa	l Islamic University Chittagong		
Moderators:			
Dr. Hazrat Ali, Pharmacy, IIUC (Convener)	Dr. Hazrat Ali, Pharmacy, IIUC (Convener)		
Dr. Md. Areeful Haque, Pharmacy, IIUC			
Name of the Speaker Topic			
Dr. Masanari Umemura	Innovative Technology of Synthesizing		
Senior lecturer, Cardiovascular Research	Commercially		
Institute (CVRI) Available Drugs with Intrinsic Magnetic			
Yokohama City University Graduate School of Property			
Medicine			
Yokohama, Japan			

Plenary Session 5

Date: Sunday, 27 February 2022 Time: 17:00 – 17:45

Zoom Link: https://bdren.zoom.us/j/68433549527 Meeting ID: 684 3354 9527

Session Chairs:

Prof. Dr. Celia Shanaz, Bangladesh University of Engineering and Technology

Dr. M. Shafiul Alam, King Fahd University of Petroleum and Minerals, Saudi Arabia

Moderators:

Sk. Md. Golam Mostafa, EEE, IIUC (Convener)

Dr. Yasir Arafat, EEE, IIUC

Name of the Speaker	Topic
Prof. Dr. Lina Bertling Tjernberg, SMIEEE	Power grid technologies for
School of Electrical Engineering and Computer Science	a sustainable society
KTH Royal Institute of Technology, Stockholm, Sweden	

Technical Session: TS-4A

Session Title: Computer Vision with Deep Learning-3

Date: 27 February 2022 Time: 18:30 – 20:00

Zoom Link: https://bdren.zoom.us/j/65632737475 Meeting ID: 656 3273 7475

Session Chairs:

Dr. Taskeed Jabid, East West University

Dr. Muhammad A Hasan, University of Liberal Arts Bangladesh

Session Moderators:

Muhammad Moazzam Hossen, CSE, IIUC (Convener)

Subrina Akter, CSE, IIUC

bubi ma rikeer, dob, nod	
Paper ID	Title of the Paper
266	Image Translator: An Unsupervised Image-to-Image Translation Approach using
	GAN
	Silvia Satoar Plabon, Mohammad Shabaj Khan, Md. Khaliluzzaman, and Md. Rashedul Islam
125	Performance Analysis of Glaucoma Detection Using Deep Learning Models
	Nazmus Shakib Shadin, Silvia Sanjana, Sovon Chakraborty, Nusrat Sharmin
126	Face Mask Detection using Deep Learning and Transfer Learning Models
	Nazmus Shakib Shadin, Silvia Sanjana, Daiyan Ibrahim
194	Hand Gesture Based Speed and Direction Controlof DC Motor Using Machine
	Learning Algorithm
	Mohammed Abdul Kader, Md. Jahid Hasan, Md. Ariful Islam Emon, Abdul Karim, Sultan Mahmud, Tahia
	Tahsin
352	Fine-Tuned Convolutional Neural Networks for Bangladeshi Vehicle Classification
	Minhajur Rahman, Saimunur Rahman, Mohamed Uvaze Ahamed Ayoobkhan

Technical Session: TS-4B			
	Session Title: Machine Learning - 4		
Date: 27 February 2022 Time: 18:30 - 20:00			
Zoom Link: https://bdren.zoom.us/j/69258201776 Meeting ID: 692 5820 1776			
Session Ch	Session Chairs:		
Dr. A. B. M. Alim Al Islam, Bangladesh University of Engineering and Technology			
Dr. Shahidul Islam Khan, International Islamic University Chittagong			
Session Mo			
	d Sazid Zaman Khan, CSE, IIUC (Convener)		
	snim, CSE, IIUC		
Paper ID	Title of the Paper		
101	A Machine Learning Approach to Analyze the Performance of Bangladesh Cricket in		
	T20		
	Tamal Joyti Roy, Md. Ashiq Mahmood, Aninda Mohanta, Diti Roy, Jannatun Tuba Jyoti, Pran Krishna		
	Ghosh		
209	Building Prediction Models and Risk Factor Identification for Mobile Cellular		
	Subscription Rate in Bangladesh		
	Md. Shafiullah, Mehenaz Chowdhury, Mst. Irin Sultana, Md. Nazmus Salehin		
239	Machine Learning Approaches to Predict Rice Yield of Bangladesh		
	Tasnia Rahman, Sakifa Aktar		
348	An Investigation into Crime Forecast Using Auto ARIMA and Stacked LSTM		
	Sadia Sharmin, Fahim Irfan Alam, Avisheak Das, Rokan Uddin		
416	Multi-Variate Regression Analysis for Stock Market price prediction using Stacked		
	LSTM		
	Rokan Uddin, Fahim Irfan Alam, Avisheak Das, Sadia Sharmin		

	Technical Session: TS-4C		
	Session Title: Power and Energy System - 4		
Date: 27 F	Date: 27 February 2022 Time: 18:30 – 20:00		
Zoom Link	Zoom Link: https://bdren.zoom.us/j/65074321395 Meeting ID: 650 7432 1395		
Session Ch	airs:		
Dr. Yasir A	rafat, International Islamic University	Chittagong	
Dr. M. Shaf	iul Alam, King Fahd University of Petr	oleum and Minerals, KSA	
Session M	oderators:		
Engr. Khandakar Abdulla Al Mamun, EEE, IIUC (Convener)			
Engr. Md. Jalal Uddin, EEE, IIUC			
Paper ID Title of the Paper			
143	Design and Implementation of Data Mohammad Shahadat Hossain, Minhajul Isla	Analysis-Based Energy Monitoring System m, Prosenjit Barua, Md. Ahsan-Ul Hoque	
228	Analysis of Energy Consumption for	a Hybrid Green Data Center	
	Md. Tabil Ahammed, Nourin Osman, Chinmo Kaium	y Das, MD. Anwar Hossain, Sabbir Hossain, Mehedi Hasan	
326	,	a Deregulated Market Scenario in Bangladesh man, Insan Arafat Jahan, Arik Subhana, Fahim Abid	

444	Energy Conservation and Load Shifting based DSM approach in residential sector:
	applicability and impacts analysis in the case of developing countries
	Muhammad Azharul Islam, Md. Sarowar Hossain, Md. Rabiul Hasan, Md Sayedul Islam Babu, Hasan Al
	Banna, Md. Nahid Hasan Rashed, and Md. Shafiul Alam

Technical Session: TS-4D	
Session Title: Embedded System and IoT - 2	
Date: 27 February 2022 Time: 18:30 – 20:00	
Zoom Link: https://bdren.zoom.us/j/69650207120 Meeting ID: 696 5020 7120	
Session Cha	
	amim Ahmad, Rajshahi University
	rowat Zaman Sarker, Uttara University
Session Mo	derators:
•	ıllamah Iqbal, EEE, IIUC (Convener)
	asan, EEE, IIUC
Paper ID	Title of the Paper
99	IoT Based Greenhouse Environment Monitoring and Smart Irrigation System for
	Precision Farming Technology
	Arindom Chakraborty, Monirul Islam, Animesh Dhar, Mohammad Shahadat Hossain
124	IoT Based Air Pollution Monitoring & Prediction System
	Mohammed Rakib, Sanaulla Haq, Md. Ismail Hossain, Tanzilur Rahman
476	Design and Implementation of Bangla Braille Key for Blind Examinees of Bangladesh
	Sumaiya Afroj, Muhammad Muinul Islam
484	IoT-GSM Based Controlling and Monitoring System to Prevent Water Wastage,
	Water Leakage, and Pollution in the Water Supply
	Abdullah Al Shahid Chowdhury, Yasir Arafat, M. Shafiul Alam

Technical Session: TS-4E		
Session Title: Optical Communication and Blockchain		
Date: 27 F	ebruary 2022 Time: 18:30 – 20:00	
Zoom Link: https://bdren.zoom.us/j/68821453697 Meeting ID: 688 2145 3697		
Session Chairs:		
Prof. Dr. Mohammad Sanaullah Chowdhury, University of Chittagong		
Dr. Md. Sakir Hossain, American International University-Bangladesh		
Session Moderators:		
Engr. Abdul Gafur, ETE, IIUC (Convener)		
Abu Zafar Md. Imran, ETE, IIUC		
Paper ID	Title of the Paper	
50	Securing Certificate Management System Using Hyperledger Based Private	
	Blockchain	
	Saha Reno, Mamun Ahmed, Saima Ahmed Jui, Shamma Dilshad	
65	Low Loss Flatband THz Guidance in Nodeless Antiresonant Hollow Core Fiber	
	Azra Sadia Sultana, Abdul Khaleque, Kumary Sumi Rani Shaha, Mafin Muntasir Rahman, Md. Sarwar	
	Hosen	

128	3D Design for Lightweight S-Box
	Tasnuva Ali, A. H. Azni, Nur Hafiza Zakaria
153	IoT and Machine Learning-Based Hypoglycemia Detection System
	Fahim Hossain Sifat, Rahnuma Mahzabin, Sadia Anjum, Al-Akhir Nayan, Muhammad Golam Kibria

Technical Session: TS-4F			
Session Title: Environmental Science and Civil Engineering			
Date: 27 February 2022 Time: 18:30 - 20:00			
Zoom Link: https://bdren.zoom.us/j/66492430230 Meeting ID: 664 9243 0230			
Session Ch	nairs:		
Prof. Dr. Engr. Muhammad Abu Eusuf, International Islamic University Chittagong			
Dr. Shamzani Affendy Mohd. Din, International Islamic University Malaysia			
Session Moderators:			
Md. Shamim Ahmed, CE, IIUC (Convener)			
Md. Khorsł	Md. Khorshed Ali, CE, IIUC		
Paper ID	Title of the Paper		
107	Surface Morphology and Atomic Spectroscopy Analysis of Brick Particles as an		
	Adsorbent to Remove Toxic Metals (Cr, Pb and Fe) from Solution		
	Md. Anwarul Karim, Sharmin Sultana Dipti and Md. Abul Kalam Azad		
183	Physicochemical Assessment of Dhanmondi Lake Water in Dhaka City, Bangladesh		
	Md. Khorshed Ali, Ahmed Jubaer, Md. Tasneem Zafar, Md. Zahirul Islam Talukder		
230	Review the Structural Health Monitoring (SHM) System and the Built Environment:		
	A literature review.		
	Md Mostafizur Rahman Raju, Muhammad Abu Eusuf		
470	Probabilistic Indicators for the Assessment of Structural Characteristics and		
	Understanding Professional Ethics: A Multi- Dimensional Approach		
	Muhammad Abu Eusuf, Md. Shamim Ahmed, M.S.R.S Eusuf and Wira Mohd. Noor		