

Venue: Campus A, House 56, Road 4/A, Satmasjid Road, Dhanmondi, Dhaka

TENTATIVE PROGRAM SCHEDULE

DAY 1				
Date	Day	Time	Event	Venue
25/10/19	FRIDAY	08:30 AM - 09:00 AM	Registration	Lobby
		09:00 AM - 10:00 AM	Official Inauguration	Auditorium
		10:00 AM - 10:30 AM	Tea	5 th floor
		10:30 AM - 11:15 AM	Keynote I	Auditorium
		11:15 AM - 11:45 PM	Invited Talk I	Auditorium
		11:45 AM - 12:45 PM	Technical Sessions 1, 2	A 401, 402
		12:45 PM - 02:15 PM	Lunch & Prayer	Cafeteria
		02:30 PM - 03:45 PM	Technical Sessions 3, 4	A 401, 402
		03:45 PM - 04:00 PM	Tea Break	5 th Floor
		04:00 PM - 04:30 PM	Invited Talk II	Auditorium
		04:45 PM - 05:45 PM	Industry Panel Session	Auditorium
		06:00 PM - 06:15 PM	Official Photo Shoot	Auditorium
		06:15 PM - 06:30 PM	Cultural Program	Auditorium
		07:00 PM - 08:30 PM	Banquet	The Great Kabab Factory

DAY 2				
Date	Day	Time	Event	Venue
26/10/19	SATURDAY	09:00 AM - 09:45 AM	Keynote II	Auditorium
		09:45 AM - 11:00 AM	Technical Sessions 5, 6, 7	A 401, 402, 403
		11:15 AM - 11:45 AM	Invited Talk III	Auditorium
		11:45 AM - 12:30 PM	Panel Discussion	Auditorium
		12:30 PM - 01:30 PM	Lunch + Prayer	Cafeteria
		01:30 PM - 03:00 PM	Technical Sessions 8, 9	A 401, 402
		03:00 PM - 04:15 PM	Technical Sessions 10, 11	A 403, 404
		04:15 PM - 04:30 PM	Tea Break	5 th Floor
		04:45 PM - 05:15 PM	Closing & Awarding Ceremony	Auditorium

Day 1

Keynote Speech 1: Friday, 25 October, 2019	
Speaker: Prof. Dr. Eui Nam Huh Department of Computer Science and Engineering, Kyung Hee University, South Korea	
Topic: 5G Enabled Edge Cloud Challenges and Applications	
Venue: Campus A Auditorium	Time: 10:30 AM - 11:15AM
Session Chair: Prof. Dr. Hafiz Md Hasan Babu (DU)	

Invited Speech 1: Friday, 25 October, 2019	
Speaker: Aninda Bose Senior Editor, Springer India	
Topic: Importance of Ethics in Research Publishing	
Venue: Campus A Auditorium	Time: 11:15 AM - 11:45AM
Session Chair: Prof. Dr. Md. Abdur Razzaque (DU)	

Technical Session 1: Friday, 25 October, 2019	
Topic: Intelligent Systems I	
Venue: Campus A; Room: 401	Time: 11:45 AM - 12:45 PM
Session Chair: Prof. Dr. Md Saiful Islam (BUET), Prof. Dr. AKM Muzahidul Islam (UIU)	
Paper ID	Title
13	Automated Tax Return Verification with Blockchain Technology: Tanjina Helaly, Safayet Hossain, Showrav Saha and Jannatul Ferdous
139	Bringing a Change in Digital Mobile Banking through Distributed Technology: Md. Talukder, Nabil Islam, Shaila Sharmin, Abdullah Al Omar and Sakib Hasan
144	Orchestration Based Task Offloading for Mobile Edge Computing in Small-Cell Networks: Md Delowar Hossain, Md Abu Layek, Tangina Sultana, Md Alamgir Hossain, Md Imtiaz Hossain, Waqas Ur Rahman, Yun Hwan Kim, and Eui-Nam Huh
148	DEB: A Delay and Energy Based Routing Protocol for Cognitive Radio Ad-hoc Networks: Sumaiya Tasmim, Abrar Hasin Kamal, Mohammad Obaidullah Tusher and Nafees Mansoor

Technical Session 2: Friday, 25 October, 2019	
Topic: Bioinformatics	
Venue: Campus A; Room: 402	Time: 11:45 AM - 12:45 PM
Session Chair: Prof. Dr. AKM Ashikur Rahman (BUET), Prof. Dr. Touhid Bhuiyan (DIU)	
Paper ID	Title
63	Drug Protein Interaction Network Detection and Analysis of Cardiovascular Disease Related Genes: A Bioinformatics Approach: Md. Rakibul Islam, Ashraful Rasel and Moniruzzaman Rony
69	Identification of genetic links of Thyroid Cancer to the Neurodegenerative and Chronic diseases progression: Insights from Systems Biology Approach: Md. Ali Hossain, Tania Akter Asa, Sheikh Muhammad Saiful Islam, Muhammad Sajjad Hussain and Mohammad Ali Moni
4	Conceptual Content in Deep Convolutional Neural Networks: An analysis into multi-faceted properties of neurons: Zahra Sadeghi
86	Prediction of DNA Binding Protein from Profile Based Hidden Markov Model Feature: Rianon Zaman, Khan Raqib Mahmud, Abul Kalam Al Azad and Md. Asifuzzaman Jishan

Technical Session 3: Friday, 25 October, 2019	
Topic: Signal, Image & Video Processing I	
Venue: Campus A; Room: 401	Time: 02:30 PM - 03:45 PM
Session Chair: Prof. Dr. Syed Akhter Hossain (DIU), Prof. Dr. Khondaker Abdullah-al-Mamun (UIU)	
Paper ID	Title
20	Recognition and Classification of Fruit Diseases based on the Decomposition of Color Wavelet and Higher Order Statistical Texture Features: A. S. M. Shafi and Mohammad Motiur Rahman
44	EEG Motor Signal Analysis Based Enhanced Motor Activity Recognition Using Optimal Denoising Algorithm: Nuray Jannat, Sabbir Ahmed Sibli, Md. Anisur Rahaman Shuhag and Md Rashedul Islam
48	Automatic Missing-child Recovery System using Eigenfaces: Nuruzzaman Faruqui and Mohammad Abu Yousuf
78	A Faster Decoding Technique for Huffman Codes Using Adjacent Distance Array: Mir Lutfur Rahman, Pranta Sarker and Ahsan Habib
59	Semantic Segmentation of Retinal Blood Vessel via Multi-Scale Convolutional Neural Network: Sm Mazharul Islam

Technical Session 4: Day 1, Friday, 25 October, 2019	
Topic: Soft Computing	
Venue: Campus A; Room: 402	Time: 2:30 PM – 3:45 PM
Session Chair: Prof. Dr. Haider Ali (DU), Prof. Dr. Rashedur Rahman (NSU)	
Paper ID	Title
3	CerebLearn: Biologically Motivated Learning Rule for Artificial Feedforward Neural Networks: Sumaiya Tabassum Nimi, Md. Adnan Arefeen and Muhammad Abdullah Adnan
25	Diabetes Mellitus Risk Prediction using Artificial Neural Network: M. Raihan, Nasif Alvi, Md. Tanvir Islam, Fahmida Farzana and Md. Mahadi Hassan
54	Pedestrian Age and Gender Identification from Far View Images Using Convolutional Neural Network: Fatema Yeasmin Chowdhury, Md. Khaliluzzaman and Khondoker Md Arif Raihan
55	Handwritten Numeral Superposition to Printed Form Using Convolutional Auto-encoder and Recognition Using Convolutional Neural Network: M. I. R. Shuvo, M. A. H. Akhand and N. Siddique
72	DNA Motif Discovery Using a Hybrid Algorithm: Sumit Saha and Md. Rafiqul Islam

Invited Talk 2: Day 1, Friday, 25 October, 2019	
Speaker: Dr. Lawrence Ma President, Hong Kong Blockchain Society Co-founder, CEO and Chief Scientist, eMALI.IO Limited, Hong Kong	
Topic: Myth and Reality of Blockchain	
Venue: Campus A Auditorium	Time: 4:00 PM - 4:30 PM
Session Chair: Prof. Dr. M. Kaykobad (BUET)	

Panel Discussion: Day 1, Friday, 25 October, 2019	
Speakers: Mr. Zeaul Alam, Sr. Secretary, ICT Division Dr. Lawrence Ma, President, Hong Kong Blockchain Society Syed Almas Kabir, President, BASIS Dr. Arif Dowla, Group MD of ACI Group Prof. Dr. M Kaykobad, Computer Science and Engineering Dept, BUET Prof. Dr. Chowdhury Mofizur Rahman, Vice Chancellor, UIU Prof. Dr. H M Jahirul Haque, Vice Chancellor, ULAB	
Topic: Why AI and Blockchain Are Important for Bangladesh?	
Venue: Campus A Auditorium	Time: 4:45 PM - 5:45 PM
Session Moderator: Habibullah N Karim. Founder and CEO, Technohaven Company Ltd	

Day 2

Keynote Speech 2: Day 2, Saturday, 26 October, 2019	
Speaker: Dr. Takeshi Takahashi Cybersecurity Research Institute, National Institute of Information and Communications Technology (NICT), Japan	
Topic: Boosting cybersecurity with next generation visualization and AI techniques	
Venue: Campus A Auditorium	Time: 09:00 AM - 09:45 AM
Session Chair: Prof. Dr. Md. Abul Kashem Mia (BUET)	

Technical Session 5: Day 2, Saturday, 26 October, 2019	
Topic: Signal, Image & Video Processing II	
Venue: Campus A; Room: 401	Time: 9:45 AM - 11:00 AM
Session Chair: Prof. Dr. Mohammed Moshiul Hoque (CUET), Prof. Dr. Md Imdadul Islam (JU)	
Paper ID	Title
92	An SDN-enabled IoT Architecture with Fog Computing and Edge Encryption Support: Md. Rashid Al Asif, Nagib Mahfuz and Md. Abdul Momin
126	End to End Optical Character Recognition Using Synthetic Dataset Generator For Noisy Conditions: Md. Shopon, Nazmul Alam Diptu and Nabeel Mohammed
127	Unsupervised Pretraining and Transfer Learning Based Bangla Sign Language Recognition: Zinnia Khan Nishat and Md Shopon
130	A Novel Method for Ghost Removal in High Dynamic Range Images: Rakib Ul Haque, Anil Mahmud and Md.Akhtaruzzaman Adnan
143	Internal Abnormalities Detection of Human Body Analyzing Skin Images using Convolutional Neural Network: Parisa Mehera, M. F. Mridha, Nasima Begum and Md. Mohaiminul Islam

Technical Session 6: Day 2, Saturday, 26 October, 2019	
Topic: Signal, Image & Video Processing III	
Venue: Campus A; Room: 402	Time: 9:45 AM - 11:00 AM
Session Chair: Prof. Dr. Md. Hasanuzzaman (DU), Prof. Dr. Md. Obaidur Rahman (DUET)	
Paper ID	Title
64	An approach for detecting Heart Rate analyzing QRS Complex in Noise and Saturation Filtered ECG Signal: Sanjana Khan Shammi, Faysal Bin Hasan and Jia Uddin
58	Human Age Prediction from Facial Image Using Transfer Learning in Deep Convolutional Neural Networks: M. A. H. Akhand, Md Ijaz Sayim, Shuvendu Roy and Nazmul H Siddique
81	A Closer Look into Paintings' Style Using Convolutional Neural Network with Transfer Learning: Protik Nag, Sristy Sangskriti and Marium-E- Jannat
82	How Can a Robot Calculate the Level of Visual Focus of Humans Attention: Partha Chakraborty, Mohammad Abu Yousuf, Md. Zahidur Rahman and Nuruzzaman Faruqui
84	A Computer Vision Approach for Jackfruit Disease Recognition: Md. Tarek Habib, Md. Robel Mia, Md. Jueal Mia, Mohammad Shorif Uddin and Farruk Ahmed

Technical Session 7: Day 2, Saturday, 26 October, 2019	
Topic: Data Mining and Data Science	
Venue: Campus A; Room: 403	Time: 9:45 AM - 11:00 AM
Session Chair: Prof. Dr. Chowdhury Farhan Ahmed (DU), Prof. Dr. Fazlul Hasan Siddique (DUET)	
Paper ID	Title
49	Prediction of Financial Distress in Bangladesh's Banking Sector Using Data Mining and Machine Learning Technique: Mohammed Mahmudur Rahman, Zinnia Sultana, Musrat Jahan and Ramis Fariha
77	Sources and Impact of Uncertainty on Rule-based Decision Making Approaches: Md. Zahid Hasan, Shakhawat Hossain, Mohammad Shorif Uddin and Mohammad Shahidul Islam
89	Sentiment Analysis Based on Users' Emotional Reactions about Ride-sharing Services on Facebook and Twitter: Md. Sabab Zulfiker, Nasrin Kabir, Hafsa Moontari Ali and Mohammad Shorif Uddin
95	Upgrading YouTube Video Search by Generating Tags Automatically through Semantic Analysis of Contextual Data: Jinat Ara and Hanif Bhuiyan
138	Automatic Summarization of Scientific Articles from Biomedical Domain: Md. Kaykobad Reza, Rifat Rubayatul Islam and M. Sohel Rahman

Invited Talk 3: Day 2, Saturday, 26 October, 2019	
Speaker: Prof. Dr. M Sohel Rahman (ACM Distinguished Speaker) CSE, BUET	
Topic: What Metaheuristics can do for you?	
Venue: Campus A Auditorium	Time: 11:15 AM - 11:45 AM
Session Chair: Prof. Mohammed Anwer (IUB)	

Panel Discussion 2: Day 2, Saturday, 26 October, 2019	
Speakers: Prof. Dr. Moshiul Hoque, CSE, CUET Dr. Nabeel Mohammed, CSE, NSU Mamun-or-Rashid, EBLICT Project, ICT Division Mr. Ajmat Iqbal, CEO, Reve Systems Mohammad Asif Atick, CEO, HeadBlocks	
Topic: Computational Intelligence for Bangla Language Processing	
Venue: Campus A Auditorium	Time: 11:45 AM - 12:30 PM
Panel Moderator: Prof. Dr. Md. Nurul Huda (UIU)	

Technical Session 8: Day 2, Saturday, 26 October, 2019	
Topic: Optimization Techniques	
Venue: Campus A; Room: 401	Time: 01:30 PM - 03:00 PM
Session Chair: Prof. Dr. M Sohel Rahman (BUET), Prof. Dr. Ameer Ali (BUBT)	
Paper ID	Title
26	Two New Regression and Curve Fitting Techniques Using Numerical Methods: Md. Kowsher, Mir Md Moheuddin, M Ashraful Alam and Md. Jashim Uddin
56	Chemical Reaction Optimization for Mobile Robot Path Planning: Pranta Protik, Sudipto Das and Md. Rafiqul Islam
85	A Novel Hybrid Swarm Intelligence Algorithm Combining Modified Artificial Bee Colony and Firefly Algorithms: Performance Evaluation on Continuous Function Optimization Problems: Sadman Sakib, Mahzabeen Emu, Syed Mustafizur Rahman Chowdhury and Mohammad Shafiul Alam
112	An Optimized Pruning Technique for Handling Uncertainty in Decision Making Process: Md. Zahid Hasan, Shakhawat Hossain, Mohammad Shorif Uddin and Mohammad Shahidul Islam

122	Computational Techniques for Structure Preserving Model Reduction of Constrain Dynamical Models: Mohammmd Monir Uddin
131	Efficient Graph Search Algorithm using Minimum Spanning tree based on Clustering:Shuhena Salam Aonty, Md. Sabir Hossain, Shoilee Dutta and Mohammad Robaitul Islam Bhuiyan

Technical Session 9: Day 2, Saturday, 26 October, 2019

Topic: IoT and Cloud Computing	
Venue: Campus A; Room 402	Time: 01:30 PM - 03:00 PM
Session Chair: Prof. Dr. Mostofa Akbar (BUET), Prof. Dr. Mosaddek Hossain Kamal (DU)	
Paper ID	Title
16	Voice command to code fragments based IDE in cloud: Sabila Nawshin, Sarah Ahsin, Mohammad Ali, Swakkhar Shatabda and Salekul Islam
35	IoT based Smart Agriculture Monitoring System with double tier data storage facility: Shfayet Ahmed, Eliza Ahmed and Akhlak Uz Zaman
57	An Automated Wireless Irrigation System By Using Moisture sensor and DTMF technology: Pallab Kumar Nandi, Romana Rahman Ema, Tajul Islam and Shadman Jahan
100	IoT based Smart Security Service Provisioning using Voice Controlled Door Locking System: Sumaiya Amin Anamika, Md. Ar Rafi Khan, Md. Mayen Hasan Sefat and Muhammad Golam Kibria
124	A Digital Platform Design for Supply Chain of Existing Fish Market in Bangladesh: Ratul Hasan Shaon, Md. Ariful Islam and M Saddam Hossain Khan
133	IoT Based Household Water Quality Monitoring And Contamination Detection System Using Wireless Sensor: S.M. Rahadul Islam, Md. Mayen Hasan Sefat, Md. Ahsan Habib and Muhammad Golam Kibria

Technical Session 10: Day 2, Saturday, 26 October, 2019

Topic: Intelligent System II	
Venue: Campus A; Room 403	Time: 3:00 PM - 4:15 PM
Session Chair: Prof. Dr. Arshad M. Chowdhury (BracU), Prof. Dr. Salekul Islam (UIU)	
Paper ID	Title
134	DiChokro - An Anti Stealing System for Two Wheelers: Md. Rabiul Ali Sarker, Khondaker Tanzim Alam and Tanzilur Rahman
74	A Study on Software Defined Radio using USRP B200: Saulin Tuhin, Fahim, Syed Fahim Rahman, Syed Faisal Rahman, Abu Al Mursalin and A.K.M. Muzahidul Islam
109	A Novel Hybrid Machine Learning Model To Predict Diabetes Mellitus: Md. Shahriare Satu, Syeda Tanjila Atik and Mohammad Ali Moni
118	Design Exploration of LH-CAM with Updating Mechanism: Omer Mujahid, Zahid Ullah, Abdul Hafeez and Tama Fouzder
128	Facilitating Hard-to-Defeat Car AI using Flood-fill Algorithm: Md. Sabir Hossain, Mohammad Robaitul Islam Bhuiyan, Md. Shariful Islam, Md. Faridul Islam and Md. Al-Hasan

Technical Session 11: Day 2, Saturday, 26 October, 2019	
Topic: Natural Language Processing	
Venue: Campus A; Room: 404	Time: 03:00 PM - 04:15 PM
Session Chair: Prof. Dr. Md. Aminul Haque Akhand (KUET), Prof. Dr. Shariful Islam (DU)	
Paper ID	Title
11	Lexicon-free Bengali Automatic Speech Recognition System: Md. Mehadi Hasan, Md. Ariful Islam, Shafkat Kibria and Mohammad Shahidur Rahman
41	Bangla phoneme recognition: probabilistic approach: Md. Shafiul Alam Chowdhury and Md. Farukuzzaman Khan
87	A Subword Level Language Model for Bangla Language: Aisha Khatun, Anisur Rahman, Hemayet Ahmed Chowdhury, Md. Saiful Islam and Ayesha Tasnim
135	Developing a Fuzzy Features based Online Bengali Handwritten Word Recognition System: Nur-A-Alam Shiddiki, Lamia Alam and Mohammed Moshiul Hoque

- Instructions for the Presenters:
 - Each speaker will get 15 minutes for regular paper presentation and Q&A.
 - Please carry your presentation in a pen-drive and make sure that your presentation files are copied into the designated computer kept in the presentation room. Our volunteers will be there to help you.
 - We support *.pptx, *.pdf for presentation files.