Parallel Technical Sessions

Session -IS101A (Intelligent Systems): Day 1 (10.01.2020) at 14:30-16:00, Room: Media Studio

Session Chair	To Be Advised (TBA)	
Session Co-Chair	TBA	
Paper ID	**Title**	**Room**
33	Toddler Sensory-Motor Development for Object Manipulation by Analyzing Hand-Pose	Media Studio
35	Predicting the Demand of Prescribed Medicines in Bangladesh using Artificial Intelligent (AI) based Long Short-Term Memory (LSTM) Model	Media Studio
192	Improving Natural Language Parser Accuracy by Unknown Word Replacement	Media Studio
45	Hybridization of Evolutionary and Swarm Intelligence Algorithms for improved performance: A case study with TSP problem	Media Studio

Session -TR101C (Blockchain (Tech Trends)): Day 1 (10.01.2020) at 14:30-16:00, Room: 3204

Session Chair	TBA	
Session Co-Chair	TBA	
Paper ID	**Title**	**Room**
42	A decentralized computational system built on blockchain for educational institutions.	3204
91	Barriers to Growth of Renewable Energy Technology in Bangladesh: Case of Solar Home System in Rural Regions	3204
47	BUMAR: A Blockchain-Empowered UAV-Assisted Smart Surveillance Architecture for Marine Areas	3204
86	Secured Blockchain Based Decentralized Internet: A Proposed New Internet	3204

Session -NC101B (Networking and Communications): Day 1 (10.01.2020) at 14:30-16:00, Room: 3202

Session Chair	TBA	
Session Co-Chair	TBA	
Paper ID	**Title**	**Room**
23	Evaluation of Four SDN Controllers with Firewall Modules	3202
32	Hidden Markov Model based Trust Management Model for Underwater Wireless Sensor Networks	3202
69	Reducing Redundancy by Optimizing Dominant Pruning Algorithm for Wireless Ad Hoc Networks	3202
72	Design and Performance Evaluation of Eight Channel WDM Based PON with CSRZ-QPSK Transmitter Configuration	3202

Session -SE101D (Software Engineering): Day 1 (10.01.2020) at 14:30-16:00,

Room: 3205

Session Chair	To Be Advised (TBA)	
Session Co-Chair	TBA	
Paper ID	Title	Room
52	A Hybrid Framework for Interconnecting Various Software Engineering Process Models and Techniques	3205
117	An approach to secure multi-tier websites through SQL-Injection detection and prevention	3205
95	Relaxed Reorder Buffer Commit with Batch Context Switch	3205
102	An Analysis of Incentive Model (PII) to Maximize the Beneficiary Outreach by Ensuring Privacy	3205

**********************END OF SESSION 1, DAY 1*********************

Session -COMVIS102A (Computer Vision): Day 1 (10.01.2020) at 16:15-17:45, Room: Media Studio

Session Chair	TBA	
Session Co-Chair	TBA	
Paper ID	Title	Room
27	Robust Underwater Object Detection with Autonomous Underwater Vehicle: A Comprehensive Study	Media Studio
195	Augmented Primitive Data Types of Programming Language	Media Studio
41	Automatic Control Point Selection System based Anthropomorphic Animal Face Masking	Media Studio
60	Extracting Relevant Information Using Handheld Augmented Reality	Media Studio

Session -IS102B (Intelligent Systems): Day 1 (10.01.2020) at 16:15-17:45, Room: 3202

Session Chair	TBA	
Session Co-Chair	TBA	
Paper ID	Title	Room
73	A Deep Convolutional Neural Network Based Small Scale Test-bed for Autonomous Car	3202
77	A Comparative Sentiment Analysis on Bengali Facebook Posts	3202
80	A stylometric approach for author attribution system using neural network and machine learning classifiers	3202
97	ANFIS based authentication performance evaluation for enhancing security in Internet of Things	3202

Session -TR102C (Deep Learning): Day 1 (10.01.2020) (10.01.2020) at 16:15-17:45, Room: 3204

Session Chair	To Be Advised (TBA)	
Session Co-Chair	TBA	
Paper ID	Title	Room
43	Blood Count Prediction for Disease Prognosis based on Combined Multi-modal Interaction Model with Related Attributes	3204
58	An Automated Model using Deep Convolutional Neural Network for Retinal Image Classification to Detect Diabetic Retinopathy	3204
61	Adaptive Feature Selection and Classification of Colon Cancer from Gene Expression Data: An Ensemble Learning Approach	3204
81	A Boolean network inference from time-series gene expression data using a statistical method	3204

Session -HCI102D (Human Computer Interface): Day 1 (10.01.2020) at 16:15-17:45, Room: 3205

Session Chair	TBA	
Session Co-Chair	TBA	
Paper ID	Title	Room
31	Analysis of Brain Wave Data Using Neurosky Mindwave Mobile II	3205
46	A Context-Based Searching Technique by Extraction and Fusion of Metadata of Digital Photos	3205
65	Mutual Context-based Word Prediction for Internet Messenger Chat	3205
92	Roles of Social Influence in Expediting Online Learning Acceptance: A Preliminary Study on Bangladeshi Learners	3205

***********************END OF SESSION 2, DAY 1*********************

Session -Comvis201A (Computer Vision): Day 2 (11.01.2020) at 11:00-12:30, Room: Media Studio

Session Chair	TBA	
Session Co-Chair	TBA	
Paper ID	Title	Room
124	Discriminant Feature Extraction using Disease Segmentation for automatic Leaf Disease Diagnosis	Media Studio
178	An Appearance-based Approach to Detect the Wrong-way Movement of Vehicles Using Deep Convolutional Neural Network	Media Studio
204	Application of Neuro-GA Hybrids in Sensor Optimization for Structural Health Monitoring	Media Studio
194	Criminal Behavior Analysis for Questionable Vehicle Detection	Media Studio

Session -Comp201B (Computing): Day 2 (11.01.2020) at 11:00-12:30, Room: 3202

Session Chair	To Be Advised (TBA)	
Session Co-Chair	TBA	
Paper ID	Title	Room
50	Private Cloud Solution for Vehicles in Afghanistan Using GSM	3202
67	Experimental data and clock multiplexing technique for implementing single wire synchronous data Bus	3202
71	CAM - Categorized Affect Map: Implementation of a Smart Geographic Information System for Categorizing Places Based on People's Affective Responses	3202
211	Location, Context and Device aware Framework (LCDF): A unified Framework for Mobile Data Management	3202

Session -IS201C (Intelligent Systems): Day 2 (11.01.2020) at 11:00-12:30, Room: 3204

Session Chair	TBA	
Session Co-Chair	TBA	
Paper ID	Title	Room
54	Electronic Opinion Analysis System for Library (E-OASL)	3204
59	Predicting Behavior Trends among Students Based on Personality Traits	3204
121	Identification of Extreme Guilt and Grave Fault in Bengali Language	3204
131	Classification on Educational Performance Evaluation Dataset using Feature Extraction Approach	3204

Session -HCI201D (Human Computer Interface): Day 2 at (11.01.2020) 11:00-12:30, Room: 3205

Session Chair	TBA	
Session Co-Chair	TBA	
Paper ID	Title	Room
122	Enhancing Smartphone Lock Security using Vibration Enabled Randomly Positioned Numbers	3205
129	Ball Game Controller: A Tangible User Interface	3205
191	Kids Play: A Touch Screen Application for Early Childhood Education of Autistic and Learning-Disabled Children	3205
209	Design and Implementation of Smart Cyclone Separator Vacuum Cleaner Bot Driven by Renewable Energy	3205

Session -TR201E (Tech Trends): Day 2 at (11.01.2020) 11:00-12:30, Room: 3206

Session Chair	TBA	
Session Co-Chair	TBA	
Paper ID	**Title**	**Room**
83	An Improved Class-wise Principal Component Analysis Based Feature Extraction Framework for Hyperspectral Image Classification	3206
109	Player Performance Profiling for Penalty Shootouts in Football Using Video Analysis	3206
103	Distributed Disk Store	3206
197	COMPUTATIONAL MODELING FOR PHOTOVOLTAIC THERMAL SYSTEM	3206

**********************END OF SESSION 1, DAY 2********************

Session ALG202A (Algorithms): Day 2 at (11.01.2020) 13:30-15:00, Room: Media Studio

Session Chair	TBA	
Session Co-Chair		
Paper ID	**Title**	**Room**
110	Stable Marriage Algorithm for Student-College Matching with Quota Constraints	Media Studio
157	Antimagic Labelling of any Perfect Binary Tree	Media Studio
214	Qualitative Study of Contention-aware Scheduling Algorithm for Asymmetric Multicore Processors	Media Studio
89	An Effective Modification of Play Fair Cipher with Performance Analysis using 6X6 Matrix	Media Studio

Session -TR202B (Technology Trends: IoT): Day 2 at (11.01.2020) 13:30-15:00, Room: 3202

Session Chair	TBA	
Session Co-Chair		
Paper ID	**Title**	**Room**
74	Bangla Handwritten Digit Recognition Using Deep Convolutional Neural Network	3202
160	A Deep Learning Approach to Smart Refrigerator System with the assistance of IOT	3202
165	Predicting Bowling Performance in Cricket from Publicly Available Data	3202
180	An IoT Based Model of a Nitrogen Detection System for Soil Samples	3202

Session -IS202C (Intelligent Systems): Day 2 at (11.01.2020) 13:30-15:00, Room: 3204

Session Chair	To Be Advised (TBA)	
Session Co-Chair	TBA	
Paper ID	Title	Room
152	An Empirical Survey on Crowdsourcing-Based Data Management Techniques	3204
156	Online Product Recommendation System by Using Eye Gaze Data	3204
158	Incorporating Supervised Learning Algorithms with NLP Techniques to Classify Bengali Language Forms	3204
171	Protection of Sensitive Data in Zero Trust Model	3204

Session -SE202D (Software Engineering): Day 2 at (11.01.2020) 13:30-15:00, Room: 3205

Session Chair	TBA	
Session Co-Chair	TBA	
Paper ID	Title	Room
177	A Proposed Model for Bengali Named Entity Recognition Using Maximum Entropy Markov Model Incorporated with Rich Linguistic Feature Set	3205
145	An Innovative Model for Program Management	3205
155	Analyzing Web Application Vulnerabilities: An Empirical Study on E-Commerce Sector in Bangladesh	3205
181	Automated Self Driving Car Following Lane with Emergency Braking System	3205

Session -IS202E (Intelligent Systems): Day 2 at (11.01.2020) 13:30-15:00, Room: 3206

Session Chair	TBA	
Session Co-Chair	TBA	
Paper ID	Title	Room
170	Credit Card Fraud Detection using Data Pre-processing on Imbalanced Data - both Oversampling and Under sampling	3206
104	Residual Net for Car Detection with spatial transformation	3206
193	Combined Item Sets Generation using Modified Apriori Algorithm	3206
199	A Machine Learning Approach to Identify the Correlation and Association among the Students' Educational Behavior	3206

*********************END OF SESSION 2, DAY 2*********************

Session -TR301A (Tech Trends): Day 3 at (12.01.2020) 09:00-10:30, Room: Media Studio

Session Chair	To Be Advised (TBA)	
Session Co-Chair	TBA	
Paper ID	Title	Room
182	A Deep Learning Based Approach on Categorization of Tea Leaf	Media Studio
196	An Efficient Approach for Prediction of Essential Protein from PPI Network	Media Studio
144	A Smart and Integrated Surface Water Monitor System Architecture: Bangladesh Perspective	Media Studio

Session -NC301B (Networking and Communications): Day 3 at (12.01.2020) 09:00-10:30, Room: 3202

Session Chair	TBA	
Session Co-Chair	TBA	
Paper ID	Title	Room
87	Naive Bayes based Trust Management Model in Wireless Body Area Networks	3202
116	The Morphology of Life Events: A River metaphor	3202
120	Automated Parking System using Graph Algorithm	3202
179	Performance Analysis of AODV, OLSR, DSDV Routing Protocols in MANET Under Black Hole Attack	3202

Session -TR301C (Tech Trends): Day 3 at (12.01.2020) 09:00-10:30, Room: 3204

Session Chair	TBA	
Session Co-Chair	TBA	
Paper ID	Title	Room
151	A Robust Method for Lane Detection under Adverse Weather and Illumination Conditions Using Convolutional Neural Network	3204
172	Synthetic Samples Generation for Imbalance Class Distribution with LSTM Recurrent Neural Networks	3204
173	Blockchain based Fertilizer Distribution System: Bangladesh Perspective	3204
215	A Pragmatical Study on Blockchain Empowered Decentralized Application Development Platforms	3204

*********************END OF SESSION, DAY 3*********************