# The 20th International Conference on Computer & Information Technology (ICCIT) 2017

Organized By
## Department of Computer Science and Engineering
## University of Asia Pacific (UAP)
## Session Assignment

## Plenary Session I
**Friday, 22 December 2017**
**Venue: UAP, Time:** 10:30am - 12:15pm
**Session Chair:Prof. Dr. Mohammad S. Alam**, FIEEE, Texas A&M University-Kingsville, USA

| Keynote Speakers | Talk Title |
|---|---|
| **Prof. Dr. Saifur Rahman**, FIEEE, President-elect, IEEE Power & Energy Society,Virginia Tech, USA | *Energy Efficiency and the Role of IoT in a Smart City Connected Community* |
| **Prof. Dr. ParvezHaris**, De Montfort University, UK | *Development of a web-server containing a database and tools for analysis and sharing of protein spectroscopic data* |
| **Prof. Dr. Latifur Khan,** University of Texas University of Texas - Dallas, USA | *Big Stream Data Analytics: Current & Future Trends.* |

## Plenary Session II
**Saturday, 23 December 2017**
**Venue: UAP, Time:** 09:30am - 10:30am
**Session Chair: Prof. Dr. KaziMohiuddin Ahmed,** EEE, UAP

| Keynote Speakers | Talk Title |
|---|---|
| **Prof. Dr. Alamgir Hossain,** Anglia Ruskin University, UK | *AI for Innovation, Transformation and Automation* |
| **Dr. Fahmida N. Chowdhury,** National Science Foundation, USA | *Careers at the Rapidly Shifting Human-Technology Frontier: Global Engagement, Local Impact* |

## Invited  Speech
**Friday, 22 December 2017**
**Venue: UAP, Time:** 05:30pm - 06:50pm
**Session Chair: Prof. Dr. Tapan Kumar Chakraborty,** EEE, UAP

| Keynote Speakers | Talk Title |
|---|---|
| **Dr. Mohammad Patwary,** SMIEEE, FIET, Professor of Wireless Systems & Digital Productivity | *How will the fifth generation (5G) wireless connectivity and internet of things (IoT) evolve the future socio-economic culture with enhanced digital productivity?* |
| **Dr. Zeenath Reza Khan,** University of Wollongong in Dubai | *Ethics Courses for IT students: Why is it crucial in the era of millennials and technology immersion?* |

| | |
|---|---|
| **Prof. Dr. Chowdhury Shahriar,** Communications and Signal Processing Engineer, Northrop Grumman, Virginia Polytechnic Institute and State University, USA | *Satellite Communication System Design* |
| **S.M. Salim Zabir,** PhD, Professor, Department of Creative Engineering,  National Institute of Technology, Tsuruoka College | *TBA* |

## Technical Session - I
### Saturday, 23 December 2017
Time: **11:00am – 12:30am**

**Session ID: 1.1- Machine Intelligence (MI – I)**
**Session Chair: Prof. Dr. Dr. Md. ShafiulAlam, EEE, DU**
**Venue: Room# 714, 7th Floor, UAP**

| Paper ID | Author(s) and Paper Title |
|---|---|
| 38 | Fahim Mohiuddin, Ishmam Hossain and Md. Wasi Ul Kabir. A Noble Color-Texture Hybrid Method for Content-Based Image Retrieval |
| 64 | Tapos Datta, Bishwajit Purkaystha and Md Saiful Islam. Bengali Handwritten Character Recognition Using Deep Convolutional Neural Network |
| 109 | Farhana Tazmim Pinki, Nipa Khatun and S.M. Mohidul Islam. Content based Paddy Leaf Disease Recognition and Remedy Prediction using Support Vector Machine |
| 142 | Md. Shamim Towhid and Md. Mijanur Rahman. Spectrogram Segmentation for Bird Species Classification based on Temporal Continuity |
| 155 | Abdullah - and Mohammad Hasan. An Application of pre-Trained CNN for Image Classification |
| 170 | Sudipto Chandra, Md. Al-Amin Nowshad, M. Jahirul Islam and Marium-E-Jannat. An automated system to detect and recognize vehicle license plates of Bangladesh |

**Session ID: 1.2- Computer Networks and More (CNM - I)**
**Session Chair: Dr. Abdul Hamid, CSE, UAP**
**Co-Chair: Dr. Md. Ezharul Islam, CSE, JU**
**Venue: Lab # 5, 7th Floor, UAP**

| Paper ID | Author(s) and Paper Title |
|---|---|
| 19 | Shahid Nabi, Muhammad Usama Iqbal and Nazar Abbas Saqib. Secure Serial Data Communication by UART using Advanced Encryption Standard |
| 93 | Maliha Momtaz Islam, Sourav Paul and Dr. Md. Mokammel Haque. Reducing Network Overhead of IoT DTLS Protocol Employing ChaCha20 and Poly1305 |
| 198 | Vishal Gupta, Shrey Shah and Shatanu Shrivastava. Secure Domain Name Service in Software Defined Network |
| 214 | Sudipta Singha Roy, Shaikh Akib Shahriyar, Md. Asaf-Uddowla Golap, Kazi Md. Rokibul Alam and Yasuhiko Morimoto. A Novel Encryption Model for Text Messages using Delayed Chaotic Neural Network and DNA Cryptography |
| 220 | Debasish Chakroborti and Sristy Sumana Nath. Web Service Performance Enhancement for Portable Devices Modifying SOAP Security Principle |
| 283 | Md Ashraf Uddin, Arnisha Akhter, Shamima Parvez and Andrew Stranieri. Efficient Route Selection in Ad Hoc On-Demand Distance Vector Routing |

| Session ID: 1.3- Signal and Image Processing (SIP- I) <br> Session Chair: Prof. Dr. Mahbub Hossain, CSE, MIST <br> Venue: Room#713, 7th Floor, UAP | |
|---|---|
| **Paper ID** | **Author(s) and Paper Title** |
| 7 | Haseeb Ur Rehman, Naeem Akbar, Sara Tehsin, Nazar Saqib and Saad Rehman. Computation of Two Dimensional Fast Fourier Transform on Field Programmable Gate Arrays for Real Time Signal and Image Processing |
| 10 | Muhammad Towhidur Rahman, Muhammad Abdul Kadir, A.H.M Zadidul Karim and Md Abdullah Al Mahmud. RRESPIRATION MONITORING BY USING ECG |
| 69 | Sagheer Khan. EMG DATA ACQUISITION AND FLIGHT CONTROL OF QUADCOPTER ON DIFFERENT EMG SIGNALS |
| 76* | Haleema Sadia, Muhammad Zeeshan, Aimal Khan, Sabahat Sherien and Hafsa Iqbal. Range Estimation in Radar using Maximum Likelihood Estimator |
| 106 | Hussain Nyeem. Reversible Data Hiding with Image Bit-plane Slicing |
| 125 | Md. Abdul Wahed and Hussain Nyeem, "Efficient LSB Substitution for Interpolation based Reversible Data Hiding Scheme" |
| Session ID: 1.4: Mobile Applications and Others (MAO – I) <br> Session Chair: Prof. Dr. Abul L. Haque,Chairman of ECE, Dean of School of Engineering, Presidency University <br> Venue: Lab 4, 7th Floor, UAP | |
| **Paper ID** | **Author(s) and Paper Title** |
| 8 | Md.Saiful Islam, Md.Shajid-Ul- Mahmud, Md Hossam-E- Haider and Md. Syedul Amin. Smartphone Based Flying Object Reporting System |
| 50 | Muztaba Fuad and Debzani Deb. Back to the Basics: Read Critically, Reflect Prudently and Write Analytically |
| 138 | Nahida Sultana Chowdhury and Rajeev R. Raje. Disparity between the Programmatic Views and the User Perceptions of Mobile Apps |
| 331 | Abir Saha and Maitraye Das. Impact of Social Networking on Post-Partum Depression in Women: An Analysis in the context of Bangladesh |
| 288 | Sabrina Abedin, Avijit Hira and Sayeb Mohammad Tadvin. Novel Venus Photonic Crystal Fiber Structure with Low loss over S+C+L+U Wavelength Bands and Large Negative Dispersion |

## Technical Session – II
### Saturday, 23 December 2017
### 02:00pm-03:30pm

**Session ID: 2.1- Machine Intelligence (MI – II)**
**Session Chair: Dr. Bilkis Jamal Ferdosi, CSE, UAP**
**Session Co-Chair: Dr. ShaheraHossian, CSE, UAP**
**Venue: Room#714, 7th Floor, UAP**

| Paper ID | Author(s) and Paper Title |
|---|---|
| 182 | Md. Shamim Reza Sajib and Dr. Saifuddin Md Tareeq. A Feature Based Method for Real Time Vehicle Detection and Classification From on-Road Videos |
| 185 | Shahnoor Eshan and Mohammad Hasan. An application of Machine Learning to Detect Abusive Bengali Text |
| 195 | Nusrat Mubin Ara and Nishikanto Sarkar Simul. Convolutional Neural Network Approach for Vision Based Student Recognition System |
| 197 | Syed Mehedi Hasan Nirob, Md. Kazi Nayeem and Md. Saiful Islam. Question Classification Using Support Vector Machine with Hybrid Feature Extraction Method |
| 236 | Risul Islam Rasel, Nasrin Sultana, Sheikh Nurunnahar Nahar and Dalia Bari Dalia. A Short Term Wind Speed Forcasting Using SVR and BP-ANN: A Comparative Analysis |
| 272 | Md Enamul Haque, Faaiza Mohammad Areef, Feras Mohammad Areef and Md Muntasir Rahman. Augmenting Helpfulness Prediction Analysis of Online Product Reviews |
| | |

**Session ID: 2.2- Computer Networks and More (CNM - II)**
**Session Chair: Prof. Dr. Md. Imdadul Islam, Chairman, CSE, Jahangirnagar University**
**Venue: Lab # 5, 7th Floor, UAP**

| Paper ID | Author(s) and Paper Title |
|---|---|
| 20 | Sree Krishna Das. Kalman Filter based Location Estimation of Machines in M2M Communication over Cellular Networks |
| 25 | Syed Osama Bin Islam, Muhammad Mubasher Saleem, Saad Rehman and Mohammad S. Alam. MetalMUMPs based MEMS Direction Finding Acoustic Sensor and its Analysis |
| 30 | Mashal Malik, Umar Farooq, Saad Rehman and Rupert Young. Survey and Taxonomy of Multichannel MAC Protocols for Wireless Network |
| 305 | Sharafat Hossain and Masud An Nur Islam Fahim. A Simple Way of Image Encryption Using Pixel Shuffling and Pixel Manipulation |
| 308 | Sanjay Saha, Mohammad Mamun Elahi, Mohammad Mahfuzul Islam and Shabbir Ahmed. An Efficient Successive Authentication Scheme for Vehicular Ad-hoc Networks |
| 321 | Mahrin Tasfe, A.K.M Nivrito and Amitabha Chakrabarty. Gossip : A Social Interest Based Routing Algorithm for Pocket Switched Network |

| Session ID: 2.3- Signal and Image Processing (SIP- II) Session Chair: Prof. Dr. Khademul Islam, CSE, Rajshahi University Venue: Room # 713, 7th Floor, UAP | |
|---|---|
| **Paper ID** | **Author(s) and Paper Title** |
| 113 | Liton Chandra Paul and Md. Monimul Islam. Proposal of Wide Bandwidth and Very Miniaturized Having Dimension of µm Range Slotted Patch THz Microstrip Antenna Using PBG Substrate and DGS |
| 120 | Md. Golam Murtuza, Abu Zafar Md Imran, Md. Imtiaz Kamrul, Engr. Razu Ahmed and Engr. Abdul Gafur. Investigation of Cloud Attenuation Over Bangladesh for Microwave Communications |
| 154 | Salman Haque and Mohammad Hasan. Single Image Super-resolution Using Back Propagation Neural Networks |
| 209 | Kazi Shah Nawaz Ripon, Sarfaraz Newaz, Lasker Ershad Ali and Jinwen Ma. Bi-Level Multi-Objective Image Segmentation Using Texture-Based Color Features |
| 324 | Abu Saleh Musa Miah, Md. Rabiul Islam and Md. Khademul Islam Molla. Motor Imagery Classification using Subband Tangent Space Mapping |
| 327 | Antara Mahmud, Md. Mainul Hasan Polash, Adnan Kamal and Hasan Sarwar. A Framework for Enhancing Bangla Document Images Printed on Newsprint Papers |
| | |

| Session ID: 2.4: Data Mining (DM – I) Session Chair: Professor Dr. Md. Abdul Mottalib, Chairperson, CSE, BRACU Venue: Lab # 4, 7th Floor, UAP | |
|---|---|
| **Paper ID** | **Author(s) and Paper Title** |
| 17 | Sibendu Sarker. Automated Profile Building using Publicly Available Social Media Data |
| 22 | Mehedee Hassan and Mohammad Zahidur Rahman. Crime News Analysis: Location and Story Detection |
| 47 | Fahim Shariar Shoumik and Md Moinul Hoque. Scalable Micro-Service based Approach to FHIR Server with Golang and No-SQL |
| 114 | Md. Riaz Mahmud, Rayhan Morshed Pritom and Md. Rafiqul Islam. Optimization of Collaborative Transportation Scheduling in Supply Chain Management with TPL using CRO |
| 121 | Md Abu Sayed, Md Maksudur Rahman, Moinul Zaber and Amin Ali. Understanding Dhaka City Traffic Intensity and Traffic Expansion Using Gravity Model |
| 335 | Mahmudul Hasan Bhuiyan, Amrit Bhattacharjee and Rudra Pratap Deb Nath. DB2KB: A Framework to Publish A Database as A Knowledge Base Linked to Other Knowledge Bases |
| | |

# Technical Session – III
**Saturday, 23 December 2017**
**03:45pm-05:15pm**

**Session ID: 3.1- Machine Intelligence (MI –III)**
**Session Chair: Dr. Rashedul Islam, CSE, UAP**
**Session Co-Chair: Dr. Nasima Begum, CSE, UAP**
**Venue: Room#714, 7th Floor, UAP**

| Paper ID | Author(s) and Paper Title |
|---|---|
| 228* | Md Shamsur Rahim and Tanvir Ahmed. "An Initial Centroid Selection Method based on Radial and Angular Coordinates for K-means Algorithm" |
| 287 | Asish Kumar Ghosh and Shyla Afroge. "A Comparison between Support Vector Machine (SVM) and Bootstrap Aggregating Technique for Recognizing Bangla Handwritten" |
| 297 | Abdullah-Al Nahid, Ferdous Ali and Yinan Kong. "Histopathological Breast-Image Classification With Image Enhancement by Convolutional Neural Network" |
| 302 | Umme Santa, Farzana Tazreen and Shayhan Chowdhury. "Bangladeshi Hand Sign Language Recognition from Video" |
| 306 | Talha Ibn Aziz, Al Shahriar Rubel, Md Sirajus Salekin and Rafsanjany Kushol. "Bangla Handwritten Numeral Character Recognition Using Directional Pattern" |
| 337 | Rasel Ahmed Bhuiyan, Abdul Kawsar Tushar, Akm Ashiquzzaman, Jungpil Shin and Md Rashedul Islam. "Reduction of Gesture Feature Dimension for Improving the Hand" |

**Session ID: 3.2- Natural Language processing (NLP –I)**
**Session Chair: Dr. FirozMridha, CSE, UAP**
**Venue: Room#713, 7th Floor, UAP**

| Paper ID | Author(s) and Paper Title |
|---|---|
| 37 | Md. Habibul Alam, Md-Mizanur Rahoman and Md. Abul Kalam Azad. "Sentiment Analysis for Bengali Sentences using Convolutional Neural Network" |
| 62 | Shamsun Nahar, Mohammad Nurul Huda, Md. Nur-E-Arefin and Mohammad Mahbubur Rahman. "Evaluation of Machine Translation Approaches to Translate English to Bengali" |
| 75 | Tapasy Rabeya, Sanjida Ferdous, Himel Suhita Ali and Narayan Ranjan Chakraborty. "A Survey on Emotion Detection a Lexicon-Based back Tracking Approach for Detecting Emotion from Bengali Text" |
| 135 | Md Moinul Hoque and Paulo Quaresma. "A Heuristics-Based Keyword and Phrase Ranking in the Text Corpus for Question Answering Systems" |
| 143 | Syed Tauhid Zuhori, Md. Asif Zaman and Firoz Mahmud. "Ontological Knowledge Extraction from Natural Language Text" |
| 219 | Ayesha Siddika Nipu and Urmee Pal. "A Machine Learning approach on Latent Semantic Analysis for Ambiguity Checking on Bengali Literature" |

| Session ID: 3.3- Computer Networks and More (CNM - III) Session Chair: Prof. Dr. Md. AbdurRazzaque, Chairperson, CSE, Green University Venue: Lab # 5, 7th Floor, UAP | |
|---|---|
| **Paper ID** | **Author(s) and Paper Title** |
| 175 | Tangila Tanni and Mohammad Hasan. "A Performance Analysis of a Typical Server running on a Cloud" |
| 284 | Nafis Neehal, Dewan Ziaul Karim and Ashraful Islam. "Cloud-POA: A Cloud Based Map Only Implementation of PO-MSA on Amazon Multi-node EC2 Hadoop Cluster" |
| 312 | Himadri Shekhar Mondal, Md. Tariq Hasan, Md. Bellal Hossain and Rajib Mandal. "Improving Reliable Cloud Computing Environment Using Fuzzy Logic" |
| 177 | Rahatara Ferdousi, Md. Helal Uddin and Kazi Masudul Alam. "An Empercial Study of CoAP Based Service Discovery Methods for Constrained IoT Network Using Cooja Simulator" |
| 358 | Syed Maruful Huq, M Ashikur Rahman and Sabbir M Saleh. "Application for Integrating Microcontrollers to Internet of Things" |
| Session ID: 3.4: Data Mining (DM – II) Session Chair: Dr. ShaheraHossian, CSE, UAP Co-Chair: Dr. Nasima Begum, CSE, UAP Venue: Lab # 4, 7th Floor, UAP | |
| **Paper ID** | **Author(s) and Paper Title** |
| 63 | Bishwajit Purkaystha, Tapos Datta and Md Saiful Islam. "Product Recommendation: A Deep Learning Factorization Method Using Separate Learners" |
| 145 | Muhammad Usama Islam, Faisal Bin Ashraf, Ali Imam Abir and M. A. Mottalib. "Polarity Detection Of Online News Articles Based On Sentence Structure And Dynamic Dictionary" |
| 172 | Fahim Ifteker Ahmed, Md.Rezaul Islam, Sazzad Hossan and Risul Islam Rasel. "River Tide Level Prediction: A Data Mining Approach for Hydrographic Time Series data Analysis" |
| 187 | Khandaker Abir Rahman and Joseph Maes. "How Discernible User Impromptu Behavior is When Unlocking Touch Screen?" |
| 238 | Quazi Ishtiaque Mahmud Rafi, Asif Mohaimen, Md. Saiful Islam and Marium-E-Jannat Mukta. "A Support Vector Machine mixed with statistical reasoning approach to predict movie success by analyzing public sentiments" |
| 248 | Mohaimanul Hoque Chowdhury, Mohammed Kamrul Islam and Shahidul Islam Khan. "Imputation of Missing Healthcare Data" |

# Technical Session – IV
**Saturday, 23 December 2017**
**05:40pm-07:30pm**

## Session ID: 4.1- Machine Intelligence (MI – IV)
**Session Chair: Prof. Dr. Haider Ali, CSE, DU**
**Venue: Room# 714, 7th Floor, UAP**

| Paper ID | Author(s) and Paper Title |
|---|---|
| 53 | Md Mahadi Hasan Nahid, Bishwajit Purkaystha and Md. Saiful Islam. Bengali Speech Recognition: A Multi-layered LSTM-RNN Approach. |
| 58 | Kanza Sheikh, Saad Rehman and Rupert Young. Analysis of the Influence of Climate Variables on Real Time Short Term Load Forecasting. |
| 310 | Mujadded Al Rabbani Alif, Sabbir Ahmed and Muhammad A Hasan. Isolated Bangla Handwritten Character Recognition with Convolutional Neural Network. |
| 323 | Md. Khaliluzzaman, Afroja Begum, Syeda Kaniz Fatama and Md. Monirul Islam. Detection and Analysis of Hijab Based on Visual Feature of Neck and Hair. |
| 348 | Md Mahbub Hasan and Md Mahbubur Rahman. RansHunt: A Support Vector Machines Based Ransomware Analysis Framework with Integrated Feature Set. |
| 364 | Nahid Quader, Md. Osman Gani, Dipankar Chaki and Md. Haider Ali. A Machine Learning Approach to Predict Movie Box-Office Success. |

## Session ID: 4.2: Data Mining (DM – III)
**Session Chair: Dr. Nasima Begum, CSE, UAP**
**Co-Chair: Dr. Shahera Hossian, CSE, UAP**
**Venue: Lab # 4, 7th Floor, UAP**

| Paper ID | Author(s) and Paper Title |
|---|---|
| 285 | Procheta Nag, Saikat Mondal, Arun More, Foysal Ahmed and M. Raihan. A Simple Acute Myocardial Infarction (Heart Attack) Detection System Using Physiological Data and Data Mining Techniques. |
| 291 | Md Shafiur Rahman, Md Ashraf Uddin, Leema Rani Dey, Sajal Halder and Md Manowarul Islam. Link Prediction by Correlation on Social Network. |
| 292 | Abu Zonayed Riyadh, Nasif Alvi and Kamrul Hasan Talukder. Exploring Human Emotion Via Twitter. |
| 301 | Md. Rafat Zakiullah and Md. Saiful Islam. Design of a Convenient and Low Cost Hadoop Application for Extracting Consumer Behavior. |
| 326 | Masiur Rahman Siddiki, Abu Talha, Farida Chowdhury and Md Sadek Ferdous. CrowdsouRS: A Crowdsourced Reputation System for Identifying Deceptive Online Contents. |
| 347 | Ashratuz Zavin, Adnan Sharif, Anika Ibnat, Wali Mohammad Abdullah and Muhammad Nazrul Islam. Towards Developing an Intelligent System to Suggest Optimal Path based on Historic and Real-time Traffic Data. |

| Session ID: 4.3: Algorithm (ALGO – I) Session Chair: Prof. Dr. Sohel Rahman, Head, CSE, BUET Venue: Room# 713, 7th Floor, UAP | |
|---|---|
| **Paper ID** | **Author(s) and Paper Title** |
| 31 | Summit Haque, Moqsadur Rahman and Sheikh Nabil Mohammad. A System for Recommending Colleges to HSC Appointees Using Slope One Algorithm |
| 61 | Md. Ahsan Ayub, Kazi A Kalpoma, Humaira Tasnim Proma, Syed Mehrab Kabir and Rakib Chowdhury. Exhaustive Study of Essential Constraint Satisfaction Problem Techniques based on N-Queens Problem |
| 127 | Tania Islam and Kamrul Hasan Talukder. An Improved Algorithm for String Matching using Index Based Shifting Approach |
| 203 | Hatem Moumni, Olfa Hamdi and Sana Ezouaoui. Algorithms and Performance Evaluation for Sparse Matrix Product on Grid'5000 Intel Xeon Processor |
| 243 | Anika Sayara, Md. Shamim Towhid and Md. Shahriar Hossain. A Probabilistic Approach For Obtaining An Optimized Number Of Services Using Weighted Matrix And Multidimensional Scaling |
| 263 | Elwsaef Rim, Hamdi Olfa and Ezouaoui Sana. Performance Evaluation of Algorithms for Sparse-Dense Matrix Product on Grid'5000 on Intel Xeon Processor |
| 44 | H M Mehedi Hasan, Hubert Jochheim and Alfred Schultz. Optimization of Selected Parameters of the Forest Growth Model Biome-BGC (version ZALF) - Using HOPSPACK |

| Session ID: 4.4: VLSI and Embedded Systems (VES- I) Session Chair: Dr. Lafifa Jamal, Chairperson, Department of Robotics and Mechatronics Engineering, DU Venue: Lab # 5, 7th Floor, UAP | |
|---|---|
| **Paper ID** | **Author(s) and Paper Title** |
| 43 | Hafiz Muhammad Umair Munir, Fahad Mahmood, Umar Shahbaz Khan and Javaid Iqbal. The Voice Enabled Stick An Embedded Device for Active Guidance of Visually Impaired Pedestrians |
| 95 | Sakib Quader, Abu Bakar Siddik, N. M. Mahmud Hossain and Md. Iqbal Bahar Chowdhury. TCAD Based Performance Analysis Of Junctionless Cylindrical Double Gate All Around FET Up To 5nm Technology Node |
| 181 | Tauhidul Haque and Hasan Khaled Rouf. Design of a Muscle Movement Based Control System. |
| 190 | Shekh Nuruzzaman, Md.Baijid Hasan Shorif, Md. Ahsanul Hoque and Md. Eftekhar Alam. Design and Implementation of Arduino Based Battlefield Assistive Robot. |
| 259 | Abu Tayab Noman, M A Mahmud Chowdhury, Iftekhar Uddin Ahmed, Nazia Hassan, Humayun Rashid and S M Taslim Reza. Design and Implementation of Microcontroller Based Assitive Robot for Person with Blind Autism and Visual Impairment |
| 298 | Md Mainul Hasan Polash, Sanjida Nasreen Tumpa, Mahmuda Binte Rashid Samia, Muhtasim Fuad Rafid, Saborni Shernaj Binte Elahi, Priyanka Kundu Moumi, Shubhashis Roy Dipta, Toki Tahmid Inan, Sahrima Jannat Oishwee and S M Anisur Rahman. Explorer-0100: An Autonomous Next Generation Mars Rover |

| 311 | Nazmul Hasan, Rajon Bardhan and Hanif Bhuiyan. Design a Lightweight Low Power Multiplier Circuits Using Quantum Dot Cellular Automata Architecture |
|---|---|

# Technical Session –V
**Sunday, 24 December 2017**
**09:00am-10:30am**

**Session ID: 5.1: Signal and Image Processing (SIP- III)**
**Session Chair: Prof. Dr. Mohammad Shorif Uddin, Jhanagirnagar University**
**Venue: Room # 713 7th Floor, UAP**

| Paper ID | Author(s) and Paper Title |
|---|---|
| 9 | Md.Saiful Islam, Md.Shajid-Ul- Mahmud, MdAktharuzzaman and MdHossam-E-Haider, "Voice Command Based Matlab GUI for Microcontroller" |
| 59* | Haris Masood, Saad Rehman, Ali Hassan, Qaiser Chaudry, Muhammad Alam and Rupert Young. A Novel Technique for Recognition and Tracking of Moving Objects based on E-MACH and Proximate Gradient (PG) Filters |
| 67 | AsfandAteem, Zeeshan Ali Akbar, Muhammad Asad Bashir and Mairaj Ali, "Eye Monitored Device for disable People" |
| 112 | Liton Chandra Paul and Md. Salman Hossain, "Proposal and Characterisation of a CPW Feed Miniaturized Implantable Patch Antenna for Biomedical Applications" |
| 207* | Thein HtayZaw and Nu War, "zero crossing rate, energy" |
| 361 | SaniaZahan, Md. AshaduzzamanMilu and Md. Khademul Islam Molla, "Rhythmic Component Retrieval from EOG Artifact of Electroencephalography Signals" |

**Session ID: 5.2: Natural Language processing (NLP –II)**
**Session Chair: Dr. Md. Nawab Yousuf Ali, East West University, Bangladesh**
**Venue: Room # 714 7th Floor, UAP**

| Paper ID | Author(s) and Paper Title |
|---|---|
| 12 | M. Tahmid Hossain, Md. Moshiur Rahman, Sabir Ismail and MdSaiful Islam, "A Stylometric Analysis on Bengali Literature For Authorship Attribution" |
| 35 | Faruk Ahmad and Md-MizanurRahoman "Named Entity Classification using Dependency Grammar" |
| 158 | ShammurAbsar Chowdhury, FirojAlam, Naira Khan and SheakRashedHaiderNoori, "Bangla Grapheme to Phoneme Conversion Using Conditional Random Fields" |
| 202 | Nazmul Islam, Mohammed MoshiulHoque and Mohammad Rajib Hossain, "Automatic Authorship Detection from Bengali Text using Stylometric Approach" |
| 226 | Urmee Pal, Ayesha SiddikaNipu and Sabir Ismail, "A Machine Learning Approach for Stylometric Analysis of Bangla Literature" |

| Session ID: 5.3: Workshop Track: Software-Defined Networking (SDN) Session Chair: Dr. Shahriar Rahman, CSE, ULAB Venue: Lab # 5 7th Floor, UAP | |
|---|---|
| **Paper ID** | **Author(s) and Paper Title** |
| 296 | Mehedy Hasan RafsanJany, Nazrul Islam, RahamatullahKhondoker and Md. Ahsan Habib, "Performance Analysis of OpenFlow Based Software Defined Wired and Wireless Network" |
| 385 | Asma Islam Swapna, Nazrul Islam and RahamatullahKhondoker, "Security Analysis of IEEE 802.21 Standard in Software Defined Wireless Networking" |
| 383 | Shubham Bhardwaj, RahamatullahKhondoker, Pedro Larbig and KpatchaBayarou, "Survey of Domain Specific Languages to Build Packet Parsers for Industrial Protocols" |
| | |

| Session ID: 5.4: Workshop Track:  Antenna Session Chair: Dr.-Ing. RahamatullahKhondoker Venue: Lab # 4 7th Floor, UAP | |
|---|---|
| **Paper ID** | **Author(s) and Paper Title** |
| 380 | Md. Abdullah Abu Syeed, Dr. MdSamsuzzaman, Md. Tarikul Islam, M. Z. Mahmud and M.T. Islam, "A Modified Antipodal Vivaldi Antenna for Microwave Imaging" |
| 376 | Shazzad Hasan and Mohammad Monir Uddin, "Solution of Large-Scale Lyapunov Matrix Equations for PDEG Based Model Reduction of Structured Dynamical Systems" |
| 382 | Atikur Rahman, "3D Double S Shaped Unidirectional Antenna for Microwave Imaging" |
| | |

\* Presentation via Skype