

6th International Conference on Networking, Systems and Security (6th NSysS 2019)

Advance Program

Day 1: December 17, 2019, Tuesday	
9:00 AM – 9:30 AM	Registration [Venue: Graduate Complex Lobby, 5 th floor, CSE Wing, ECE Building]
9:30 AM – 10:30 AM	<p>Technical Paper Presentation Session: “Performance and Fault Tolerance” [Session Chair - Salekul Islam, UIU, Bangladesh]</p> <ol style="list-style-type: none"> 1. <i>Afia Anjum (MIST, Bangladesh), Tahrima Oannahary (MIST, Bangladesh) and Diana Shahrin (MIST, Bangladesh)</i>. Construction of Connected Dominating Set to Reduce Contention in Wireless Ad-hoc Network 2. <i>Suman Saha (BUET, Bangladesh), Abdullah Al Zishan (University of Alberta Edmonton, AB, Canada) and Ashikur Rahman (BUET, Bangladesh)</i>. On Target Monitoring in Directional Sensor Networks by jointly considering Network Lifetime and Fault Tolerance 3. [Short Paper] <i>Dip Ranjon Das (BUET, Bangladesh) and A. B. M. Alim Al Islam (BUET, Bangladesh)</i>. Fault-tolerant Design Method for Tizen Applications Considering Core- and API-Level Faults
10:30 AM – 11:00 AM	Tea Break and Networking
11:00 AM – 11:45 AM	<p>Invited Talk: “Secure Cloud Services without Encryption: Matrix multiplication revisited” by <i>Khaled Khan, Department of Computer Science and Engineering, Qatar University, Qatar</i></p> <p>[Session Chair - Muhammad Abdullah Adnan, BUET, Bangladesh]</p>
11:45 AM – 12:45 PM	<p>Industry Session: Talks from Valued Sponsors [Session Chair - Md. Mostofa Akbar, BUET, Bangladesh]</p>
12:45 PM – 2:00 PM	Lunch Break and Prayer Break
2:00 PM – 3:00 PM	<p>Technical Paper Presentation Session: “Text Analysis” [Session Chair - Muhammad Masroor Ali, BUET, Bangladesh]</p> <ol style="list-style-type: none"> 1. <i>Md Saddam Hossain Mukta (BUET, Bangladesh), Mohammed Eunus Ali (BUET, Bangladesh) and Jalal Mahmud (IBM, USA)</i>. Deriving Interpersonal Role Identities from Social Network Interactions 2. <i>Shofi Ullah (BUET, Bangladesh) and A. B. M. Alim Al Islam (BUET, Bangladesh)</i>. A framework for extractive text summarization using semantic graph based approach 3. [Short Paper] <i>Ismail Siddiqi Emon (Feni University, Bangladesh), Sabiha Sunjida Ahmed (Feni University, Bangladesh), Sharmin Akter Milu (NSTU, Bangladesh) and Sheikh Shahparan Mahtab (Feni University, Bangladesh)</i>. Sentiment Analysis of Bengali Online Reviews written with English Letter Using Machine Learning Approaches
3:00 PM – 4:00 PM	Keynote Talk: “FarmBeats: Empowering Farmers with Affordable Digital Agriculture Solutions” by

	<i>Ranveer Chandra, Chief Scientist, Microsoft Azure Global</i> [Session Chair - A.K.M. Ashikur Rahman, BUET, Bangladesh]
4:00 PM – 4:30 PM	Tea Break, Prayer Break, and Networking
4:30 PM – 5:30 PM	Exhibits in Lobby: Poster and Demo Presentation on Short Papers [Venue: Graduate Complex Lobby, 5 th Floor, CSE Wing, ECE Building]
4:30 PM – 5:30 PM (Parallel Session)	Exhibits in Lobby: Students' Posters Presentation [Venue: Graduate Complex Lobby, 5 th Floor, CSE Wing, ECE Building]
4:30 PM – 5:30 PM (Parallel Session)	Business Meeting of Organizers, Sponsors, and Steering Committee [Venue: Conference Room, 3 rd Floor, CSE Wing, ECE Building]
Day 2: December 18, 2019, Wednesday	
9:00 AM – 10:00 AM	Technical Paper Presentation Session: "Special-Purpose System Design" [Session Chair - Md. Abul Kashem Mia, BUET, Bangladesh] <ol style="list-style-type: none"> <i>Md. Mominur Rahman (AIUB, Bangladesh), Abu Shufian (AIUB, Bangladesh), Md. Najibullah (AIUB, Bangladesh) and Md. Momin Miah Hridoy (AIUB, Bangladesh).</i> Design and Implementation of Axial Hydro Turbine <i>Md. Rahatuzzaman (KUET, Bangladesh), Al-Zadid Sultan Bin Habib (KUET, Bangladesh) and Atik Mahabub (KUET, Bangladesh).</i> Design of Optical Waveguides Considering Thermo-Mechanical Aspects [Short Paper] <i>Delowar Hossain (BAIUST, Bangladesh), Shah Md. Salimullah (BAIUST, Bangladesh), Abrar Nayeem Chowdhury (BAIUST, Bangladesh), Sayed Md. Neshad Hasan (BAIUST, Bangladesh), Erfan Kabir (BAIUST, Bangladesh), Rahi Mahmudi (BAIUST, Bangladesh) and Mahbulul Islam (BAIUST, Bangladesh).</i> Measurement of cognitive load for writing tasks using galvanic skin response
10:00 AM – 10:15 AM	Tea Break and Networking
10:15 AM – 11:15 AM	Keynote Talk: "Cyber Security Challenges and Solutions for the Internet of Things" by <i>Biplab Sikdar, Department of ECE, National University of Singapore, Singapore</i> [ACM Distinguished Lecture & Khan-Bose Lecture] [Session Chair - Md. Shohrab Hossain, BUET, Bangladesh]
11:15 AM – 12:15 PM	Students' Forum "Structured Data Augmentation in NLP: Fast and Robust Text Classification" by <i>Md Rizwan Parvez, Department of Computer Science, University Of California at Los Angeles (UCLA), USA</i> "Integrating Wearable Sensing, Machine Learning, a Smart-phone App and Human-Expert to Design a Home Based Secondary Prevention Program for Women with Coronary Heart Disease" by <i>Arup Kanti Dey, Department of Computer Science and Engineering, University of South Florida, USA</i> "Cloud Computing and Beyond: The Future Wheel" by <i>Rifat Rahman, Chief Executive Officer, Tirzok Private Limited, Bangladesh</i>

	[Session Chair - Abu Wasif, BUET, Bangladesh] [Open for students – No registration is required]
12:15 PM – 1:00 PM	Research Preparation and Outreach Talk by <i>M. Sohel Rahman, Department of CSE, Bangladesh University of Engineering and Technology, Bangladesh</i> (ACM Distinguished Speaker) [Session Chair - Dr. Md. Shamsuzzoha Bayzid, BUET, Bangladesh] [Open for students – No registration is required]
1:00 PM – 2:15 PM	Lunch Break and Prayer Break
2:15 PM – 3:00 PM	Technical Paper Presentation Session: “Networking and Security” [Session Chair - A. B. M. Alim Al Islam, BUET, Bangladesh] 1. [Short Paper] <i>Anik Kumar Saha (BUBT, Bangladesh), Md. Sharif Uddin Khan (BUBT, Bangladesh) and Md Mezanur Rahman (AIUB, Bangladesh)</i> . Region Based Low Energy Adaptive Clustering Hierarchy (R-LEACH) Protocol: Prolonging the Lifetime of WSN 2. [Short Paper] <i>Atik Mahabub (KUET, Bangladesh) and Al-Zadid Sultan Bin Habib (KUET, Bangladesh)</i> . A Voting Approach of Modulation Classification for Wireless Network 3. [Short Paper] <i>Kamal Parvez (DU, Bangladesh), Fatema Tuz Zohra (DU, Bangladesh) and Mosarrat Jahan (DU, Bangladesh)</i> . A Secure and Lightweight User Authentication Mechanism for Wireless Body Area Network
3:00 PM – 4:00 PM	Technical Paper Presentation Session: “eHealth and Health Informatics” [Session Chair - Rifat Shahriyar, BUET, Bangladesh] 1. <i>Emily Kaczmarek (Queen’s University, Canada), Alexander Salgo (Queen’s University, Canada), Hasan Zafari (Queen’s University, Canada), Farhana Zulkernine (Queen’s University, Canada) and Alexander Singer (University of Manitoba, Canada)</i> . Diagnosing PTSD Using Electronic Medical Records from Canadian Primary Care Data 2. <i>Shahidul Islam Khan (BUET, Bangladesh) and Abu Sayed Md. Latiful Hoque (BUET, Bangladesh)</i> . Secured Technique for Healthcare Record Linkage 3. [Short Paper] <i>Tauseef Tasin (NSU, Bangladesh), Tahmin Mishma (NSU, Bangladesh), Md. Saeem Osman (NSU, Bangladesh) and Tanzilur Rahman (NSU, Bangladesh)</i> . Estimation of Blood Glucose Level of Type-2 Diabetes Patients Using Smartphone Video through PCA-DA
4:00 PM – 4:30 PM	Tea Break, Prayer Break, and Networking
4:30 PM – 5:15 PM	Tutorial: “Seven Deadly Sins of Software Security” by <i>Amiangshu Bosu, Department of Computer Science, Wayne State University, USA</i> [Session Chair - Anindya Iqbal, BUET, Bangladesh]
Day 3: December 19, 2019, Thursday	
9:30 AM – 10:30 AM	Technical Paper Presentation Session: “Distinctive Systems” [Session Chair - Atif Hasan Rahman, BUET, Bangladesh]

	<ol style="list-style-type: none"> 1. <i>Sharmin Akther Purabi (BUET, Bangladesh), Rayhan Rashed (BUET, Bangladesh), Md. Mirajul Islam (BUET, Bangladesh), Md. Nahiyen Uddin (BUET, Bangladesh), Mahmuda Naznin (BUET, Bangladesh) and A. B. M. Alim Al Islam (BUET, Bangladesh)</i>. As You Are, So Shall You Move Your Head: A System-Level Analysis between Head Movements and Corresponding Traits and Emotions 2. <i>Sourav Dey Roy (Tripura University, India), Dipak Hrishi Das (Tripura University, India) and Mrinal Kanti Bhowmik (Tripura University, India)</i>. Conventional and Deep Feature Oriented Quality Inspection of Internal Defected Eggs Using Infrared Imaging 3. [Short Paper] <i>Shaid Hasan (BUET, Bangladesh), Iqbal Kabir (BUET, Bangladesh) and Pratic A Muntakim (BUET, Bangladesh)</i>. ECG Sonification: A New Approach for Diagnosis of Cardiac Pathologies
10:30 AM – 10:45 AM	Tea Break and Networking
10:45 AM – 11:45 AM	<p>Keynote Talk: “Wearables, IoT and You” by</p> <p><i>Fahim Kawsar, Nokia Bell Labs, Cambridge, UK</i></p> <p>[Session Chair - Md. Abdur Razzaque, DU, Bangladesh]</p>
11:45 AM – 12:45 PM	<p>Panel Discussion on “Emerging Networking Systems”</p> <p>[Session Chair - Abu Sayed Md. Latiful Hoque, BUET, Bangladesh]</p>
12:45 PM – 2:00 PM	Lunch Break and Prayer Break
2:00 PM – 4:00 PM	<p>Students’ Poster Presentation: 3-Minute Enlightening Talk</p> <p>[Session Chair - Mahmuda Naznin, BUET, Bangladesh]</p>
4:00 PM – 4:30 PM	Tea Break, Prayer Break, and Networking
4:30 PM – 5:30 PM	<p>Keynote Talk: “Designing Interactive Content with Digital and Physical Artifacts” by</p> <p><i>Yoshifumi Kitamura, Research Institute of Electrical Communication, Tohoku University, Japan</i></p> <p>[Session Chair - Md. Saidur Rahman, BUET, Bangladesh]</p>
5:30 PM – 6:00 PM	Prayer Break
6:00 PM – 8:00 PM	Closing Session and Conference Banquet

Venue of all technical events (if not mentioned otherwise):

Graduate Seminar Room, Graduate Complex, 5th floor, CSE Wing, ECE Building, West Polashi, Dhaka, Bangladesh

Date: December 20, 2019 (Friday)

Conference Tour: Day-long River cruise on the river Buriganga

Detail: <https://cse.buet.ac.bd/nsyss2019/conference-tour/>