

5th International Conference on Networking, Systems and Security (5th NSysS 2018)

Advance Program

Day 1: December 18, 2018, Tuesday	
8:00 am – 9:00 am	Registration Venue: Graduate Complex, 5 th floor, ECE Building, West Palashi Campus, BUET, Dhaka, Bangladesh
9:00 am – 9:15 am	Inauguration
9:15 am – 10:15 am	Keynote Talk: “Teaching, Learning and Mentoring Computational Thinking Online in Bangladesh for Younger Students and In-Service Professionals” <i>Hasan M. Jamil, University of Idaho, USA</i> Session Chair: Muhammad Masroor Ali
10:15 am – 10:30 am	Tea Break
10:30 am – 11:30 am	Technical Session: “Networking” Session Chair: Sadia Sharmin
	<i>Gazi Zahirul Islam and Mohammod Abul Kashem. “An OFDMA-based New MAC Mechanism for IEEE 802.11ax”</i>
	<i>Masud Rana, M. Kaykobad and A. B. M. Alim Al Islam. “A New Approach for Selecting Aggregated Multicast Trees to Reduce Forwarding States”</i>
	<i>Tasmiah Tamzid Anannya and Ashikur Rahman. “Extended Neighborhood Knowledge based Dominant Pruning (ExDP)”</i>
11:30 am – 12:15 pm	Industry Talk: “Exploitation of Information Propagation Patterns in Social Sensing” <i>Tanvir Amin, Google, USA</i> Session Chair: Muhammad Abdullah Adnan
12:15 pm – 1:00 pm	Invited Talk: “Data driven decision making in healthcare” <i>Md Munirul Haque, Purdue University, USA</i> Session Chair: Md. Shamsuzzoha Bayzid
1:00 pm – 2:20 pm	Prayer Break, Lunch
2:20 pm – 3:20 pm	Tutorial: “Tutorial on wireless sensor networks” <i>Nadia Al-Aboody, Southern Technical University, Amara Technical Institute, Iraq</i> Session Chair: Md. Shohrab Hossain
3:20 pm – 4:00 pm	Technical Session: “Mobile Computing” Session Chair: Salekul Islam, UIU
	<i>Md. Mobasshir Arshed Naved and Md. Yusuf Sarwar Uddin. “Adaptive</i>

	<p><i>Notifications Generation for Smartphone Users Based on their Physical Activities</i></p> <p><i>Nafis Sadeq, Fazle Rabbi Rahat, Ashikur Rahman, Sheikh Iqbal Ahamed and Kamrul Hasan. "Smartphone-based Calorie Estimation From Food Image Using Distance Information"</i></p>
4:00 pm – 4:30 pm	Tea Break, Prayer, Networking
4:30 pm – 5:30 pm	<p>Students' Forum</p> <p>Session Chair: Mahmuda Naznin</p>
	<p>"Tree2Tree Neural Translation Model for Learning Source Code Changes"</p> <p>Saikat Chakraborty, University of Virginia, Charlottesville, VA, USA.</p> <p>"Addressing Massachusetts's Opioid Crisis: An integrated approach of Data Mining and Machine Learning"</p> <p>Md Mahmudul Hasan, PhD candidate, Department of Mechanical and Industrial Engineering, Northeastern University</p>
	<p>Industry demonstration for students by <i>Signal Stream Inc, Canada</i></p> <p>Title: "Firmware development"</p> <p>Demonstration by: Parvez Mahmood and Mohsinul Bari Shakir</p>
4:30 pm – 5:30 pm In parallel	<p>Poster Presentations of Short Papers</p> <p>Session Chair: Md. Monirul Islam</p> <p><i>Venue: Lobby, Graduate Complex, 5th Floor, CSE Wing, ECE Building, West Palashi, BUET, Dhaka, Bangladesh.</i></p>
5:30 pm – 6:00 pm	<p>Business Meeting</p> <p>Session Chair: M. Sohel Rahman</p>
Day 2: December 19, 2018, Wednesday	
8:00 am – 9:00 am	<p>Registration</p> <p>Venue: Graduate Complex, 5th floor, ECE Building, West Palashi Campus, BUET, Dhaka, Bangladesh</p>
9:00 am – 10:00 am	<p>Keynote Talk: "Automated Program Repair" <i>(An ACM Distinguished Speaker Lecture, as part of Khan-Bose Lecture Series of BUET ACM Chapter)</i></p> <p><i>Abhik Roychoudhury, School of Computing, NUS, Singapore</i></p> <p>Session Chair: M. Sohel Rahman</p>
10:00 am – 10:40 am	<p>Technical Session: "Security - I"</p> <p>Session Chair: Kazi Md. Rokibul Alam, KUET</p>
	<p><i>Shanto Roy, Md. Ashaduzzaman, Mehedi Hassan and Arnab Rahman Chowdhury. "BlockChain for IoT Security and Management: Current Prospects, Challenges and Future Directions"</i></p> <p><i>Mazharul Islam, Md.Nazmuddoha Ansary, Novia Nurain, Salahuddin Parvez Shams and A. B. M. Alim Al Islam. "A Sweet Recipe for Consolidated Vulnerabilities : Attacking a Live Website by Harnessing a</i></p>

	<i>Killer Combination of Vulnerabilities for Greater Harm</i>
10:40 am – 11:00 am	Tea Break
11:00 am - 12:00 pm	Technical Session: “Networking”
	Session Chair: Mahmuda Naznin
	<i>Laboni Sarker, Sakshar Chakravarty and Ashikur Rahman. “A Graph Theoretic Approach for Maximizing Target Coverage using Minimum Directional Sensors in Randomly Deployed Wireless Sensor Networks”</i>
	<i>Sirat Samyoun, Ashikur Rahman and Raqeebir Rab. “Design and Analysis of a Fault-Tolerant Topology Control Algorithm for Wireless Multi-hop Networks”</i>
	<i>A S M Rizvi, Tarik Reza Toha, Siddhartha Shankar Das, Sriram Chellappan and A. B. M. Alim Al Islam. “Exploiting a Synergy between Greedy Approach and NSGA for Scheduling in Computing Clusters”</i>
12:00 pm – 1:00 pm	Invited Talk: “Big Data to Machine Intelligence”
	<i>Farhana H. Zulkernine, Queen's University, Canada</i>
	Session Chair: Abu Wasif
1:00 pm – 2:20 pm	Prayer Break, Lunch
2:20 pm – 3:20 pm	Keynote Talk: “Securing Cyber-Physical and IoT Systems in Smart Living Environments”
	<i>Sajal K. Das, Missouri University of Science and Technology, USA</i>
	Session Chair: A.K.M. Ashikur Rahman
3:20 pm – 4:00 pm	Technical Session: “Security - II”
	Session Chair: Anindya Iqbal
	<i>Md Taksir Hasan Majumder and A. B. M. Alim Al Islam. “A Tale of a Deep Learning Approach to Image Forgery Detection”</i>
	<i>Nur Imtizul Haque, Kazi Md. Rokibul Alam, Tasfia Mashiat and Yasuhiko Morimoto. “A Technique to Enrich the Secrecy Level of High Capacity Data Hiding Steganography Technique in JPEG Compressed Image”</i>
4:00 pm – 4:30 pm	Tea Break, Prayer, Networking
4:30 pm – 5:30 pm	Students’ Posters Session
	Session Chair: Madhusudan Basak
	<i>Venue: Lobby, Graduate Complex, 5th Floor, CSE Wing, ECE Building, West Palashi, BUET, Dhaka, Bangladesh.</i>
5:30 pm – 6:00 pm	Industry Session
	Talks from the valued Financial Co-sponsors
	Session Chair: Anindya Iqbal
6:00 pm – 7:00 pm	Security Panel
	Session Chair: Md. Mostofa Akbar
7:00 pm – 9:00 pm	Conference Banquette
Day 3: December 20, 2018, Thursday	
8:00 am – 9:00 am	Registration

	Venue: Graduate Complex, 5 th floor, ECE Building, West Palashi Campus, BUET, Dhaka, Bangladesh
9:00 am – 10:15 am	Keynote Talk: “Wireless for the Internet of Things: Past, Present, and Future” <i>Yuan He, Tsinghua University, China</i> Session Chair: Mohammed Eunus Ali
10:15 am – 10:40 am	Tea Break
10:40 am – 11:40 am	Technical Session: “Systems” Session Chair: Tanzima Hashem
	<i>Samiul Ali Sarker, Masudur Rahman, Nasif Muslim and Salekul Islam. “Performance Analysis of Video Streaming at the Edge and Core Cloud”</i> <i>Md. Saidul Hoque Anik, Md. Adnanul Islam and A. B. M. Alim Al Islam. “An Approach Towards Multilingual Translation By Semantic-Based Verb Identification And Root Word Analysis”</i> <i>Zaheen Mustakin, Saad Manzur, Tanzila Choudhury, Farzana Rahman, Sriram Chellappan and A. B. M. Alim Al Islam. “Super-savior: An Independent Open Platform Wearable for Generating Emergency Alarms”</i>
11:40 am – 12:40 pm	Invited Talk: “Upskilling the future workforce through Affective training” <i>M. Ehsan Hoque, University of Rochester, USA</i> Session Chair: Mohammad Saifur Rahman
12:40 am – 2:00 pm	Prayer Break, Lunch
2:00 pm – 7:00 pm	Conference Tour

Venue of all events (if not mentioned otherwise):

Graduate Seminar Room, Graduate Complex, 5th floor, ECE Building, West Palashi, Dhaka, Bangladesh