

# 2017 International Conference on Networking, Systems and Security (NSysS 2017)

## Advance Program

<b>Day 1: January 05, 2017, Thursday</b>	
9.00 am - 10.00 am	Registration (Venue: Graduate Complex, 5 <sup>th</sup> floor, ECE Building, West Palashi, Dhaka, Bangladesh)
10.00 am - 10.50 pm	<p>Technical Session: “<i>Network Security</i>”</p> <p>Session Chair: A.K.M. Ashikur Rahman, Bangladesh University of Engineering and Technology, Bangladesh</p> <p>A Security-Aware Near Field Communication Architecture</p> <p><i>Abu Asaduzzaman (Wichita State University, USA), Shanta Mazumder (Wichita State University, USA), Sergio Salinas (Wichita State University, USA) and Muhammad Mridha (University of Asia Pacific, Bangladesh).</i></p> <p>Application Specific Tunneling Protocol Selection for Virtual Private Networks</p> <p><i>Sohely Jahan (Jagannath University, Bangladesh), Md. Saifur Rahman (Jagannath University, Bangladesh) and Sajeeb Saha (Jagannath University, Bangladesh).</i></p>
10.50 am - 11.05 am	Tea Break and Networking
11.05 am - 12.20 am	<p>Keynote Talk: “Towards Affective Computing in mHealth projects”</p> <p><i>Sheikh Iqbal Ahamed, Marquette University, USA</i></p> <p>Session Chair: Mohammad Zulkernine, Queen’s University, Canada</p>
12.20 pm - 1.10 pm	<p>Technical Session: “<i>Systems Security</i>”</p> <p>Session Chair: Shahriar Nirjon, University of North Carolina at Chapel Hill, USA</p> <p>Trusted Worrier: A Low-Cost and High-Accuracy User Authentication System for Firearm Exploiting Dynamic Hand Pressure Biometrics</p> <p><i>Md Shihabul Islam (BUET, Bangladesh), Mohammad Ali (BUET, Bangladesh), Kazi Hasan Zubaer (BUET, Bangladesh), Saiyma Sarmin (BUET, Bangladesh), Md Tamzeed Islam (BUET, Bangladesh), Bashima Islam (BUET, Bangladesh) and A.B.M. Alim Al Islam (BUET, Bangladesh).</i></p> <p>Usage Based Emotion Detection and User Identification</p> <p><i>Rayhan Shikder (BUET, Bangladesh), Sydur Rahaman (BUET, Bangladesh), Farzia Afroze (BUET, Bangladesh) and A.B.M. Alim Al Islam (BUET, Bangladesh).</i></p>
1.10 pm - 2.30 pm	Prayer Break, Lunch Break, and Networking

2.30 pm - 3.15 pm	<p>Tutorial: “Network Behavior Modeling and Analysis Using Data-Plane Verification”</p> <p><i>Ahmed Khurshid, Veriflow, USA</i></p> <p>Session Chair: Muhammad Masroor Ali, Bangladesh University of Engineering and Technology, Bangladesh</p>
3.15 pm - 4.15 pm	<p>Invited Talk: “Grid Based Location-Allocation Decisions to Ensure Reliable Communication”</p> <p><i>Muhammad Noor E Alam, Northeastern University, USA</i></p> <p>Session Chair: Md. Shohrab Hossain, Bangladesh University of Engineering and Technology, Bangladesh</p>
4.15 pm - 4.45 pm	Prayer Break, Tea Break, and Networking
4.45 pm - 6.00 pm	<p>Students’ Forum</p> <p><i>Hasan Shahid Ferdous, PhD student, University of Melbourne, Australia and Syed Ishtiaque Ahmed, Doctoral Candidate, Cornell University, USA</i></p> <p>Session Chair: Rifat Shahriyar, Bangladesh University of Engineering and Technology, Bangladesh</p>
6.00 pm – 6.30 pm	<p>Business Meeting of Steering Committee and Organizing Committee</p> <p>Chair: M. Sohel Rahman, Bangladesh University of Engineering and Technology, Bangladesh</p>
4.15 pm - 6.30 pm (In parallel)	<p>Students’ Posters Session</p> <p>Session Chair: S. M. Farhad, Bangladesh University of Engineering and Technology, Bangladesh</p> <p><i>Venue: Lobby, Ground Floor, CSE Wing, ECE Building, West Palashi, Dhaka, Bangladesh</i></p>
<b>Day 2: January 06, 2017, Friday</b>	
9.00 am - 9.50 am	<p>Technical Session: “<i>Information Security</i>”</p> <p>Session Chair: Tanzima Hashem, Bangladesh University of Engineering and Technology, Bangladesh</p>
	<p>Secured Aerial Photography using Homomorphic Encryption</p> <p><i>Naw Safrin Sattar (BUET, Bangladesh), Muhammad Abdullah Adnan (BUET, Bangladesh) and Maimuna Begum Kali (BUET, Bangladesh).</i></p> <p>Salty Secret: Let Us Secretly Salt the Secret</p> <p><i>E M Wasifur Rahman Chowdhury (BUET, Bangladesh), Mohammad Saifur Rahman (BUET, Bangladesh), A. B. M. Alim Al Islam (BUET, Bangladesh) and M. Sohel Rahman (BUET, Bangladesh).</i></p>
9.50 am - 10.30 am	Tea Break and Networking

10.30 am - 11.15 am	<p>Tutorial</p> <p><i>Khondkar R. Islam, George Mason University, USA</i></p> <p>Session Chair: Sadia Sharmin, Bangladesh University of Engineering and Technology, Bangladesh</p>
11.15 am - 12.30 pm	<p>Keynote Talk</p> <p><i>K.M. Tariquzzaman, Grameenphone Ltd, Bangladesh</i></p> <p>Session Chair: Mohammad Mahfuzul Islam, Bangladesh University of Engineering and Technology, Bangladesh</p>
12.30 pm - 2.00 pm	Prayer Break, Lunch Break, and Networking
2.00 pm - 2.50 pm	<p>Technical Session: “<i>Application Security</i>”</p> <p>Session Chair: Abu Sayed Md. Latiful Hoque, Bangladesh University of Engineering and Technology, Bangladesh</p>
	<p>Typosquatting Abuse (Bangladesh Perspective)</p> <p><i>Muhammed Dastagir Husain (BUET, Bangladesh) and Anindya Iqbal (BUET, Bangladesh).</i></p>
	<p>Vulnerability Detection in Recent Android Apps: An Empirical Study</p> <p><i>Faysal Hossain Shezan (BUET, Bangladesh), Farzia Afroze (BUET, Bangladesh) and Anindya Iqbal (BUET, Bangladesh).</i></p>
2.50 pm - 3.50 pm	<p>Invited Talk: “Trusted Computing for IT, IoT and ICS Systems”</p> <p><i>Khan Ferdous Wahid, Airbus Group, Germany</i></p> <p>Session Chair: Md. Abdur Razzaque, Dhaka University, Bangladesh</p>
3.50 pm - 4.20 pm	Prayer Break, Tea Break, and Networking
4.20 pm - 6.30 pm	<p>Posters and Demo Session</p> <p><i>Venue: Lobby, Ground Floor, CSE Wing, ECE Building, West Palashi, Dhaka, Bangladesh</i></p>
	<p>Session Chair: Md. Monirul Islam, Bangladesh University of Engineering and Technology, Bangladesh</p>
	<p>Design of a Solar Power Electronic Voting Machine</p> <p><i>Asif Anik (AIUB, Bangladesh), Rayeesa Jameel (AIUB, Bangladesh), Abul Anik (AIUB, Bangladesh) and Nowroze Akter (AIUB, Bangladesh).</i></p>
	<p>Cooling Energy Integration in SimGrid</p> <p><i>S.M Rizvi (BUET, Bangladesh), Tarik Reza Toha (BUET, Bangladesh), Mohammad Mosiur Rahman Lunar (University of Nebraska, Lincoln, USA), Muhammad Abdullah Adnan (BUET, Bangladesh) and A. B. M. Alim Al Islam (BUET, Bangladesh).</i></p>
	<p>Enhanced Spectrum Sensing Based on Energy Detection in Cognitive Radio Network using Adaptive Threshold</p> <p><i>Md. Zulfikar Alom (Islamic University, Bangladesh), Dr. Tapan Kumar</i></p>

	<p><i>Godder (Islamic University, Bangladesh), Mohammad Nayeem Morshed (University Malaysia Perlis, Malaysia) and Asmaa Maali (Cady Ayyad University, Morocco).</i></p>
	<p>iBuck: Reliable and Secured Image Processing Middleware for OpenStack Swift</p> <p><i>Jannatun Noor (BUET, Bangladesh) and A. B. M. Alim Al Islam (BUET, Bangladesh).</i></p>
	<p>ECL-EKM: An Enhanced Certificateless Effective Key Management Protocol for Dynamic WSN</p> <p><i>Dieynaba Mall (Université Cheikh Anta Diop de Dakar, Senegal), Karim Konaté (Université Cheikh Anta Diop de Dakar, Senegal) and Al-Sakib Khan Pathan (Southeast University, Bangladesh/ Islamic University in Madinah, KSA).</i></p>
	<p>Health Data Integration with Secured Record Linkage</p> <p><i>Shahidul Islam Khan (BUET, Bangladesh) and Abu Sayed Md. Latiful Hoque (BUET, Bangladesh).</i></p>
	<p>A Distributed Algorithm to Select Channel and Relay in Multichannel-Multirelay CR-networks</p> <p><i>Asaduzzaman Asad (CUET, Bangladesh).</i></p>
	<p>A Framework for Providing Security to Personal Healthcare Records</p> <p><i>Md. Rafiqul Islam (KU, Bangladesh), Mansura Habiba (IBM Analytics, Smarter Workforce, Ireland) and Mir Injamamul Ibne Kashem (KU, Bangladesh).</i></p>
	<p>Transition from IPv4 to IPv6 in Bangladesh: The Competent and Enhanced Way to Follow</p> <p><i>Fatema Siddika (Jagannath University, Bangladesh), Md. Anwar Hossen (Jagannath University, Bangladesh) and Sajeeb Saha (Jagannath University, Bangladesh).</i></p>
	<p>Low-Cost Finger Gesture Recognition System for Disabled and Elderly People</p> <p><i>Tusher Chakraborty (BUET, Bangladesh), Md. Nasim (BUET, Bangladesh), Sakib Md. Bin Malek (BUET, Bangladesh), Md. Taksir Hasan Majumder (BUET, Bangladesh), Md. Samiul Saeef (University of Texas at Arlington, USA) and A. B. M. Alim Al Islam (BUET, Bangladesh).</i></p>
	<p>Two Step Verification System of Highly Secure Social Media: Possible to Breach the Security</p> <p><i>M. M. Rahman (BUET, Bangladesh) and Muhammad Abdullah Adnan (BUET, Bangladesh).</i></p>
	<p>AQBox: An Air Quality Measuring Box from COTS Gas Sensors</p> <p><i>Mahmudur Rahman (BUET, Bangladesh), Afia Afrin (BUET, Bangladesh), Amatur Rahman (BUET, Bangladesh), Md Yusuf Sarwar Uddin (BUET,</i></p>

	<p><i>Bangladesh) and Nalini Venkatasubramanian (University of California, Irvine, USA).</i></p> <p>Towards devising a Solution for Generating an Alarm in a Vehicle on Waterways Experiencing Vulnerable Swing</p> <p><i>Sarfaraz Newaz (BUET, Bangladesh), S. M. Shakir Ahsan Romeo (KU, Bangladesh) and A. B. M. Alim Al Islam (BUET, Bangladesh).</i></p>
<b>Day 3: January 07, 2017, Saturday</b>	
9.00 am - 10.15 am	<p>Technical Session: “<i>Emerging Systems and Methodologies</i>”</p> <p>Session Chair: Mohammed Eunus Ali, Bangladesh University of Engineering and Technology, Bangladesh</p> <p>Devising A Novel Visible Light Based Low-Cost Ultra-Low-Power Gesture Recognition System</p> <p><i>Tusher Chakraborty (BUET, Bangladesh), Md. Nasim (BUET, Bangladesh), Sakib Md. Bin Malek (BUET, Bangladesh), Md. Taksir Hasan Majumder (BUET, Bangladesh), Md. Samiul Saeef (University of Texas at Arlington, USA) and A. B. M. Alim Al Islam (BUET, Bangladesh).</i></p> <p>A New Electronic Voting Scheme Based on Revised-SVRM</p> <p><i>Nazmul Islam (KUET, Bangladesh), Kazi Md. Rokibul Alam (KUET, Bangladesh), Shinsuke Tamura (University of Fukui, Japan) and Yasuhiko Morimoto (Hiroshima University, Japan).</i></p> <p>Sparse Mat: A Tale of Devising A Low-Cost Directional System for Pedestrian Counting</p> <p><i>Tarik Reza Toha (BUET, Bangladesh), Salman Estyak (BUET, Bangladesh), Taslim Arefin Khan (BUET, Bangladesh), Tusher Chakraborty (BUET, Bangladesh) and A. B. M. Alim Al Islam (BUET, Bangladesh).</i></p>
10.15 am - 10.45 am	Tea Break and Networking
10.45 am - 12.00 pm	<p>Keynote Talk: “Mobile/Wearable &amp; Urban Sensing and Analytics”</p> <p><i>Archan Misra, Singapore Management University, Singapore</i></p> <p>Session Chair: M. Kaykobad, Bangladesh University of Engineering and Technology, Bangladesh</p>
12.00 pm – 1.00 pm	<p>Invited Talk: “Human Centered Designs for Cyber Security”</p> <p><i>Sriram Chellappan, University of South Florida, USA</i></p> <p>Session Chair: Muhammad Abdullah Adnan, Bangladesh University of Engineering and Technology, Bangladesh</p>
1.00 pm - 2.00 pm	Prayer Break, Lunch Break, and Networking
2.00 pm - 2.50 pm	<p>Technical Session: “<i>Networking Performance Measurement and Optimization</i>”</p> <p>Session Chair: Kazi Md. Rokibul Alam, Khulna University of Engineering and Technology, Bangladesh</p>

	<p>Partial Scheduling Based Energy Aware Coverage in a Heterogeneous Sensing System</p> <p><i>Rakib Hasan (Louisiana State University, USA), Mahmuda Naznin (BUET, Bangladesh), Sheikh Fazle Rabbi (MUN University, Canada) and Md. Iftekar Islam Sakib (BUET, Bangladesh).</i></p>
	<p>Multi-layer Performance Enhancement in Wireless Nanosensor Networks</p> <p><i>Suraiya Tairin (BUET, Bangladesh), Novia Nurain (BUET, Bangladesh) and A. B. M. Alim Al Islam (BUET, Bangladesh).</i></p>
2.50 pm – 4.10 pm	<p>Industry Session</p> <p>Talks from the valued Financial Co-sponsors</p> <p>Session Chair: Md. Mostofa Akbar, Bangladesh University of Engineering and Technology, Bangladesh</p>
4.10 pm - 4.30 pm	Tea Break and Networking
4.30 pm – 5.30 pm	<p>Panel Discussions: “Road Map for Handling Big Data Over Networks: Communications, Security, and Challenges”</p> <p>Session Chair: Mahmuda Naznin, Bangladesh University of Engineering and Technology, Bangladesh</p>
5.30 pm – 6.00 pm	Prayer Break
6.30 pm - 8.00 pm	<p>Closing Session and Conference Banquet</p> <p><i>Venue: Landscape, ECE Building, West Palashi, Dhaka, Bangladesh</i></p>
6.30 pm – 6.35 pm	Welcome speech from Local Organizing Co-Chair (Abu Sayed Md. Latiful Hoque, Bangladesh University of Engineering and Technology, Bangladesh)
6.35 pm – 6.40 pm	Speech from TPC Co-Chair (Mohammad Zulkernine, Queen’s University, Canada)
6.40 pm – 6.55 pm	Speeches from valued Financial Co-sponsors
6.55 pm – 7.05 pm	Speech from the Special Guest (M. Kaykobad, Honorable Dean, EEE Faculty, Bangladesh University of Engineering and Technology, Bangladesh)
7.05 pm – 7.20 pm	Speech from the Chief Guest (Saiful Islam, Honorable Vice Chancellor, Bangladesh University of Engineering & Technology, Bangladesh)
7.20 pm – 7.25 pm	Award giving ceremony
7.25 pm – 7.30 pm	Closing remarks and vote of thanks from General Co-Chair (M. Sohel Rahman, Honorable Head, Department of CSE, Bangladesh University of Engineering and Technology, Bangladesh)
7.30 pm – 8.30 pm	Grand Banquette

**\*\*\* Day 4: January 08, 2017, Sunday: Day-long Conference Tour to WALTON Hi-Tech Industries Ltd., Kaliakoir, Gazipur, Bangladesh**

*Venue of all events (if not mentioned otherwise): Graduate Seminar Room, Graduate Complex, 5<sup>th</sup> floor, ECE Building, West Palashi, Dhaka, Bangladesh*