

# 10<sup>th</sup> International Conference on Networking, Systems and Security (10<sup>th</sup> NSysS 2023)

## Tentative Program

(All times are in Bangladesh Standard Time (BST) - GMT+6:00)

Day 1: December 21, 2023, Thursday	
9 AM – 11 AM	Registration
9 AM – 10 AM (Virtual)	<p>Keynote Talk: <b>Deepfakes, Language Models, and The Age of Synthetic Truth</b> by <i>Dongwon Lee, Pennsylvania State University, USA</i></p> <p>[Session Chair: <i>Muhammad Masroor Ali, Bangladesh University of Engineering and Technology, Bangladesh</i>]</p>
10 AM – 11 AM	<p>Technical Paper Presentation Session: <b>Networking and Security</b> [Session Chair: <i>Mohammad Shahriar Rahman, United International University, Bangladesh</i>]</p> <p>Md. Abubakar Siddik and Ashikur Rahman, <b>IT-SBA: An Improved Timer-based Scalable Broadcast Algorithm for Wireless Ad-hoc Networks</b></p> <p>Md. Nazmul Hasan Sakib, Masfiqur Rahman and A. B. M. Alim Al Islam, <b>Random Data Poisoning Attacks on Nonlinear Regression Learning</b></p> <p>Joy Munshi, Sumaya Sultana, Md. Jahid Hassan, Palash Roy, Md. Abdur Razzaque and Syed Ahsanul Kabir, <b>Delay and Cost Aware Adaptive Deployment and Migration of Service Function Chains in 5G</b></p>
11 AM – 12.30 PM (Virtual)	<p>Special session: <b>Breaking the Barrier: Diverse ICT Research and Future Opportunities in Industry and Academia</b></p> <p>Invited Speakers: <i>Misita Anwar, Swinburne University of Technology, Australia</i> <i>Rifat Shams, Data61 at CSIRO, Australia</i> <i>Shaila Pervin, Foxtel, Australia</i> <i>Chadni Islam, Queensland University of Technology, Australia</i> <i>Abhijit Kumar Nag, Texas A&amp;M University, USA</i></p> <p>[Session Chair and Organizer: <i>Fariha Tasmin Jaigirdar, Monash University, Australia</i>]</p>
12.30 PM – 1.30 PM (Virtual)	<p>Special session: <b>Internet of Things</b></p> <p>Invited Speakers: <i>Md. Redowan Mahmud, Curtin University, Australia</i> <i>Adel Nadjaran Toosi, Monash University, Australia</i></p> <p>[Session Chair: <i>Rifat Shahriyar, Bangladesh University of Engineering and Technology, Bangladesh</i>]</p>
2.15 PM – 3 PM	Invited Talk: <b>Science-fiction Meets Real Computer Technologies: Quantum Energy Teleportation across Multi Qubit Systems using W-State Entanglement</b>

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	<p>by <i>Mahdy Rahman Chowdhury, North South University, Bangladesh</i></p> <p>[Session Chair: <i>Abu Wasif, Bangladesh University of Engineering and Technology, Bangladesh</i>]</p>
3 PM – 4 PM	<p>Technical Paper Presentation Session: <b>Machine Learning in Security</b> [Session Chair: <i>Md. Saiful Azad, Green University, Bangladesh</i>]</p> <p>Syed Md. Mukit Rashid, Md. Toufikuzzaman and Shohrab Hossain, <b>A Deep Learning Based Semi-Supervised Network Intrusion Detection System Robust to Adversarial Attacks</b></p> <p>Samhitha Perala, Manaswitha Reddy, Sharvari Ravindran, Sasirekha Gvk and Jyotsna Bapat, <b>Strategic Placement of Intrusion Detection Systems in IoT Mesh Networks through Machine Learning</b></p> <p>Md Mohaiminul Islam and A. B. M. Alim Al Islam, <b>Disparity-Aware Federated Learning for Intrusion Detection Systems in Imbalanced Non-IID Settings</b></p>
4 PM – 4.45 PM	<p>Invited Talk: <b>AI enhanced Transportation Operations Management System (AI-TOMS)</b> by <i>Mohammad Asadul Hoque, BlueHalo Labs, USA</i></p> <p>[Session Chair: <i>Tanzima Hashem, Bangladesh University of Engineering and Technology, Bangladesh</i>]</p>
5 PM – 6 PM	Business Meeting
6 PM – 6.45 PM (Virtual)	<p>Invited Talk: <b>Robust, Multimodal, Fair, and Reliable Health Sensing and Computing</b> by <i>Asif Salekin, Syracuse University, USA</i></p> <p>[Session Chair: <i>Mohammed Eunus Ali, Bangladesh University of Engineering and Technology, Bangladesh</i>]</p>
7 PM – 8 PM (Virtual)	<p>Keynote Talk: <b>The Persistent Problem of Applications Insecurity</b> by <i>Elisa Bertino, Purdue University, USA</i></p> <p>[Session Chair: <i>A.K.M. Ashikur Rahman, Bangladesh University of Engineering and Technology, Bangladesh</i>]</p>
<b>Day 2: December 22, 2023, Friday</b>	
9 AM – 9.45 AM	<p>Invited Talk: <b>Opportunities and Challenges on the Horizon of Data Plane Programmability</b> by <i>Israat Haque, Dalhousie University, Canada</i></p> <p>[Session Chair: <i>Muhammad Abdullah Adnan, Bangladesh University of Engineering and Technology, Bangladesh</i>]</p>
10 AM – 10.40 AM	<p>Technical Paper Presentation Session: <b>IoT and Embedded Systems</b> [Session Chair: <i>Fazlul Hasan Siddiqui, Dhaka University of Engineering and Technology, Bangladesh</i>]</p>

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	<p>Adnan Quaium, Md. Ashraful Islam, M. Sohel Rahman and A. B. M. Alim Al Islam, <b>Soft-Touch or Hard-Touch: Quantifying Touches through A New System Focusing on A Pool Touchpad for Measuring Timing of Swimmers</b></p> <p>Sakhaouth Hossan, Farhan Mahmud, Palash Roy, Md. Abdur Razzaque and Md. Mustafizur Rahman, <b>Energy and Latency-aware Computation Load Distribution of Hybrid Split and Federated Learning on IoT Devices</b></p>
10.40 AM – 11:20 AM	<p>Technical Paper Presentation Session: <b>Artificial Intelligence and Machine Learning</b> [Session Chair: <i>Rezwana Reaz, Bangladesh University of Engineering and Technology, Bangladesh</i>]</p> <p>Prakash Paudel, Satish Kumar Karna, Ruby Saud, Loknath Regmi, Tara Bahadur Thapa and Mohan Bhandari, <b>Unveiling Key Predictors for Early Heart Attack Detection using Machine Learning and Explainable AI Techniques</b></p> <p>Sabah Binte Noor and Fazlul Hasan Siddiqui, <b>Improving MaxSAT-Reordered Plans via Block Deordering</b></p>
11.20 AM – 12 PM	<p>Technical Paper Presentation Session: <b>Algorithms for Networking and Security</b> [Session Chair: <i>Md. Obaidur Rahman, Dhaka University of Engineering and Technology, Bangladesh</i>]</p> <p>Shahid Hasan, Md. Ahsan Habib, Avishek Roy and Abu Taher Md Shifat, <b>Sociala: A Incentivized Decentralized Social Media for Writers Based on Blockchain</b></p> <p>Mohammad Al-Mahmud and Md. Saidur Rahman, <b>Algorithm for Modified Minimum Length Sliding k Transmitter Problem</b></p>
2 PM – 3 PM	<p>Students Poster Presentation</p> <p><a href="https://bdren.zoom.us/j/91713858560?pwd=b3VaQTVJenlkMmpZZ09PUWE0MzYxdz09">https://bdren.zoom.us/j/91713858560?pwd=b3VaQTVJenlkMmpZZ09PUWE0MzYxdz09</a> Meeting ID: 917 1385 8560 Password: 902882</p> <p>[Session Chair: <i>Muhammad Ali Nayeem, Bangladesh University of Engineering and Technology, Bangladesh</i>]</p>
3 PM – 4 PM (Virtual)	<p>Keynote Talk: <b>Faster Segment Anything: Towards Lightweight SAM for Mobile Applications</b> by <i>Choong Seon Hong, Kyung Hee University, South Korea</i></p> <p>[Session Chair: <i>Md. Abdur Razzaque, University of Dhaka, Bangladesh</i>]</p>
4 PM – 5 PM	<p>Keynote Talk: <b>Fairness aware Machine Learning (ML) and Generative AI for Social Good</b> by <i>Latifur Khan, The University of Texas at Dallas, USA</i></p> <p>[Session Chair: <i>Prof. Dr. M. Kaykobad, BRAC University, Bangladesh</i>]</p>

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5 PM – 6 PM	Industry Session: Talk from Valued Sponsors  [Session Chair: <i>Md. Shohrab Hossain, Bangladesh University of Engineering and Technology, Bangladesh</i> ]
6 PM – 7.30 PM	Panel Discussion  [Session Chair: <i>Md. Monirul Islam, Bangladesh University of Engineering and Technology, Bangladesh</i> ]
7.30 PM – 9 PM	Closing Session and Banquette Dinner  <b>Chief Guest:</b> <i>Prof. Dr. Satya Prasad Majumder, Vice Chancellor, BUET</i> <b>Special Guest:</b> <i>Prof. Dr. Abdul Jabbar Khan, Pro-Vice-Chancellor, BUET</i> <b>Chair:</b> <i>Mahmud Naznin, Head, Department of CSE, BUET</i>
<b>Day 3: December 23, 2023, Saturday</b>	
8 AM – 5 PM	Conference Tour