7th International Conference on Networking, Systems and Security (7th NSysS 2020)

Program

NSysS 2020 Participants

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

Day 1: December 22, 2020, Tuesday	
9:00 AM – 10:00 AM	Keynote Talk: "Limitations on Malicious Secure Protocols" by Dr. Chris Clifton, Professor of Computer Science and (by courtesy) Statistics, Purdue University
	[Session Chair - Dr. Md. Abul Kashem Mia, Professor, CSE, BUET, Bangladesh]
	Webinar Link: NSysS 2020 Room 1 https://bdren.zoom.us/j/66021921077?pwd=R0JQYU1wcVdsUkEydC9CNmdQTjR0 QT09 (ID: 660 2192 1077, Passcode: 644639)
10:00 PM – 10:30 PM	Invited Talk: "Being 'LoCO': Design & Experiments With a Low-Cost Open-Source Autonomous Underwater Vehicle" by Dr. Junaed Sattar, Assistant Professor, CSE, University of Minnesota
	[Session Chair - Dr. Muhammad Abdullah Adnan, Associate Professor, CSE, BUET, Bangladesh]
	Webinar Link: NSysS 2020 Room 2 https://bdren.zoom.us/j/68481035483?pwd=OFN3TX14M0RpeURuU3h3WmxMNH pkZz09 (ID: 684 8103 5483, Passcode: 417561)
10:30 AM - 10:45 AM	Break and Networking
10:45 AM – 12:00 PM	Welcome Speech from Organizing Co-Chairs and Remarks on Departmental History Webinar Link: NSysS 2020 Welcome Session https://bdren.zoom.us/j/64728878540?pwd=MGF4OU1wUU9rN2oySzVOdGQ3a3E4Zz09 (ID: 647 2887 8540, Passcode: 145949) [The detailed program is available below.]
12:00 PM – 1:05 PM	Technical Paper Presentation Session: "Data Analytics for Healthcare" [Session Chair - Dr. Abu Sayed Md. Latiful Hoque, Professor, CSE, BUET, Bangladesh]
	1. Meer Muttakin Alam and Atanu Shome. Attacks on Health Workers during COVID-19 Pandemic - Data Exploration and News Article Detection using NLP and GRU model

	 [Short Paper] Akif Ahmed, Md. Saddam Hossain Mukta, Fardin Muntasir and Shaguffta Rahman. Can COVID-19 Change the Big5 Personality Traits of the US Health Workers? [Short Paper] Salman Sadiq Shuvo, Md Rubel Ahmed, Sadia Binta Kabir and Shaila Akter Shetu. Application of machine learning based hospital up-gradation policy for Bangladesh Webinar Link: NSysS 2020 Room 1 https://bdren.zoom.us/j/66021921077?pwd=R0JQYU1wcVdsUkEydC9CNmdQTjR0
1:05 PM – 2:15 PM	QT09 (ID: 660 2192 1077, Passcode: 644639) Lunch Break and Prayer Break
2:15 PM – 3:05 PM	Technical Paper Presentation Session: "Text Analysis" [Session Chair - Dr. Muhammad Masroor Ali, Professor, CSE, BUET, Bangladesh] 1. Rifat Rahman. A Benchmark Study on Machine Learning Methods using Several Feature Extraction Techniques for News Genre Detection from Bangla News
	Articles & Titles 2. Abu Saleh Md. Abir, Sanjana Rahman, Samia Ellin, Maisha Farzana, Md. Hridoy Manik and Chowdhury Rafeed Rahman. Confronting the Constraints for Optical Character Segmentation from Printed Bangla Text Image
	Webinar Link: NSysS 2020 Room 2 https://bdren.zoom.us/j/68481035483?pwd=OFN3TX14M0RpeURuU3h3WmxMNH pkZz09 (ID: 684 8103 5483, Passcode: 417561)
3:05 PM – 3:55 PM	Poster Presentation: 3-Minute Enlightening Talk [Session Chair - Dr. Md. Monirul Islam, Professor, CSE, BUET, Bangladesh] Webinar Link: NSysS 2020 Room 1 https://bdren.zoom.us/j/66021921077?pwd=R0JQYU1wcVdsUkEydC9CNmdQTjR0QT09 (ID: 660 2192 1077, Passcode: 644639)
3:55 PM – 4:15 PM	Prayer Break and Networking
4:15 PM – 5:00 PM	Business Meeting of Organizers and Steering Committee [Moderator - Dr. M. Sohel Rahman, Professor, CSE, BUET, Bangladesh] Webinar Link: NSysS 2020 Room 2 https://bdren.zoom.us/j/68481035483?pwd=OFN3TX14M0RpeURuU3h3WmxMNHpkZz09 (ID: 684 8103 5483, Passcode: 417561)
	Day 2: December 23, 2020, Wednesday
9:00 AM – 10:00 AM	Keynote Talk: "Machine Learning for Computer Program Synthesis" by Dr. Chris Jermaine, Professor, Computer Science, Rice University, USA

	[Session Chair -Dr. Md. Monirul Islam, Professor, CSE, BUET, Bangladesh]
	Webinar Link: NSysS 2020 Room 1 https://bdren.zoom.us/j/66021921077?pwd=R0JQYU1wcVdsUkEydC9CNmdQTjR0 QT09 (ID: 660 2192 1077, Passcode: 644639)
10:00 AM – 11:00 AM	Keynote Talk: "Knowledge Graph and Beyond" by Dr. Ying Ding, Bill & Lewis Suit Professor at School of Information, University of Texas at Austin, USA
	[Session Chair -Dr. Latifur Khan, Professor, Computer Science, UT Dallas, USA]
	Webinar Link: NSysS 2020 Room 2 https://bdren.zoom.us/j/68481035483?pwd=OFN3TX14M0RpeURuU3h3WmxMNH pkZz09 (ID: 684 8103 5483, Passcode: 417561)
11:00 AM – 11:30 AM	Break and Networking
11:30 AM – 12:00 PM	Invited Talk: "Deriving tone, emotions and sentiment from text" by Dr. Jalal Mahmud, IBM Almaden Research Center, USA
	[Session Chair - Dr. Mohammad Saifur Rahman, Associate Professor, CSE, BUET, Bangladesh]
	Webinar Link: NSysS 2020 Room 1 https://bdren.zoom.us/j/66021921077?pwd=R0JQYU1wcVdsUkEydC9CNmdQTjR0QT09 (ID: 660 2192 1077, Passcode: 644639)
12:00 PM - 12:45 PM	Students' Forum Speakers: Tanvir Ahmed Khan, Fariha Tasmin Jaigirdar, and Md. Iftekharul Islam Sakib [Moderator - Dr. Rezwana Reaz, Assistant Professor, BUET, Bangladesh]
	Webinar Link: NSysS 2020 Room 2 https://bdren.zoom.us/j/68481035483?pwd=OFN3TX14M0RpeURuU3h3WmxMNH pkZz09 (ID: 684 8103 5483, Passcode: 417561)
12:45 PM - 2:05 PM	Lunch Break and Prayer Break
2:05 PM – 3:15 PM	Technical Paper Presentation Session: "Applications of Machine Learning on Limited Data"
3.13 1 141	[Session Chair - Dr. Abm Alim Al Islam, Professor, CSE, BUET, Bangladesh]
	 Md Ashiqur Rahman, Abdullah Aman Tutul and Abm Alim Al Islam. Solving The Maze of Diagnosing Parkinson's Disease on Portable EEG Sensing to be Adaptable to Go In-The-Wind
	2. Syed Mostofa Monsur and Muhammad Abdullah Adnan. Distributing Active Learning Algorithms
	3. [Short Paper] Shuhana Azmin and A. B. M. Alim Al Islam. Network Intrusion Detection System based on Conditional Variational Laplace AutoEncoder

	Webinar Link: NSysS 2020 Room 1 https://bdren.zoom.us/j/66021921077?pwd=R0JQYU1wcVdsUkEydC9CNmdQTjR0 QT09 (ID: 660 2192 1077, Passcode: 644639)
3:15 PM – 4:00 PM	Technical Paper Presentation Session: "Networking and Security" [Session Chair - Dr. Salekul Islam, Professor & Head, CSE, UIU, Bangladesh]
	 Onur Barut, Matthew Grohotolski, Connor DiLeo, Peilong Li, Yan Luo and Tong Zhang. Machine Learning Based Malware Detection on Encrypted Traffic: A Comprehensive Performance Study [Short Paper] Imtiyaz Hossain, Sakib Eshra, Minha Jami Auvik, Syed Faiz Nasim, Raqeebir Rab and Ashikur Rahman. Efficient Feature Selection for Detecting Botnets based on Network Traffic and Behavior Analysis.
	Webinar Link: NSysS 2020 Room 2 https://bdren.zoom.us/j/68481035483?pwd=OFN3TX14M0RpeURuU3h3WmxMNH pkZz09 (ID: 684 8103 5483, Passcode: 417561)
4:00 PM – 4:20 PM	Prayer Break and Networking
4:20 PM – 5:20 PM	Industry Session: Talk from Valued Sponsors [Session Chair - Dr. Anindya Iqbal, Associate Professor, CSE, BUET, Bangladesh]
	Webinar Link: NSysS 2020 Room 1 https://bdren.zoom.us/j/66021921077?pwd=R0JQYU1wcVdsUkEydC9CNmdQTjR0 QT09 (ID: 660 2192 1077, Passcode: 644639)
	Day 3: December 24, 2020, Thursday
9:00 AM – 10:00 AM	Invited Talks: 1. "Security and Privacy Risks of Machine Learning" by Dr. Shagufta Mehnaz, Assistant Professor, Computer Science, Dartmouth College 2. "Building Security and Privacy from the Ground up for Complex Networks and Systems" by Dr. Syed Rafiul Hussain, Assistant Professor, CSE, Pennsylvania State University
	[Session Chair - Dr. Rifat Shahriyar, Associate Professor, CSE, BUET, Bangladesh]
	Webinar Link: NSysS 2020 Room 1 https://bdren.zoom.us/j/66021921077?pwd=R0JQYU1wcVdsUkEydC9CNmdQTjR0QT09 (ID: 660 2192 1077, Passcode: 644639)
10:00 AM – 10:30 PM	Tutorial on "Data Wrangling for NLP" by Dr. Jalal Mahmud, IBM Almaden Research Center, USA
	[Session Chair - Dr. Rifat Shahriyar, Associate Professor, CSE, BUET, Bangladesh]

	Webinar Link: NSysS 2020 Room 2 https://bdren.zoom.us/j/68481035483?pwd=OFN3TX14M0RpeURuU3h3WmxMNH pkZz09 (ID: 684 8103 5483, Passcode: 417561)
10:30 AM – 11:00 AM	Break and Networking
11:00 AM – 12:00 PM	Keynote Talk: "Cross-Layer Security of Embedded and Cyber-Physical Systems in the Era of Internet-of-Things" by Dr. Mohammad Abdullah Al Faruque, Associate Professor, Department of Electrical Engineering & Computer Science, Department of Computer Science, Department of Mechanical and Aerospace Engineering, University of California, Irvine [Session Chair - Dr. Mohammed Eunus Ali, Professor, CSE, BUET, Bangladesh] Webinar Link: NSysS 2020 Room 1
	https://bdren.zoom.us/j/66021921077?pwd=R0JQYU1wcVdsUkEydC9CNmdQTjR0QT09 (ID: 660 2192 1077, Passcode: 644639)
12:00 PM – 1:00 PM	Panel Discussion on "Cybersecurity in 2021: New Threats, Challenges, and Opportunities." Speakers: Dr. Ragib Hasan, Dr. Md Sadek Ferdous, Dr. Syed Rafiul Hussain, Dr. Nashid Shahriar, Dr. Sazzadur Rahaman, and Khaza Newaz Muhammad. [Moderator - Dr. Mahmuda Naznin, Professor, CSE, BUET, Bangladesh]
	Webinar Link: NSysS 2020 Room 2 https://bdren.zoom.us/j/68481035483?pwd=OFN3TX14M0RpeURuU3h3WmxMNH pkZz09 (ID: 684 8103 5483, Passcode: 417561)
1:00 PM - 2:00 PM	Lunch Break and Prayer Break
2:00 PM – 3:15 PM	 Technical Paper Presentation Session: "Scalable Systems and Visualization" [Session Chair -Dr. Md. Saidur Rahman, Professor, CSE, BUET, Bangladesh] 1. Jannat Ara Meem, Farzana Yasmin Ahmad and Muhammad Abdullah Adnan. Distributed Principal Component Analysis for Real-time Big Data Processing 2. Farhan Feroz and A. B. M. Alim Al Islam. Scaling Up Bit-Flip Quantum Error Correction 3. Ajoy Das, Kanak Das and Md. Shohrab Hossain. An Integrated Inspection and Visualization Tool for Accurate Android Collusive Malware Detection Webinar Link: NSysS 2020 Room 1 https://bdren.zoom.us/j/66021921077?pwd=R0JQYU1wcVdsUkEydC9CNmdQTjR0QT09 (ID: 660 2192 1077, Passcode: 644639)
3:15 PM – 4:00 PM	Technical Paper Presentation Session: "Machine Learning for Security" [Session Chair Dr. Md. Shohrab Hossain, Professor, CSE, BUET, Bangladesh]

	 Mosaddek Hossain, Suzzana Rafi and Md. Shohrab Hossain. An Optimized Decision Tree based Android Malware Detection Approach using Machine Learning [Short Paper] Yeaseen Arafat, Kazi Samin Yeaser, Ashikur Rahman and Arnab Dasgupta. A Machine Learning based Approach for Protecting Wireless Networks Against DoS Attacks Webinar Link: NSysS 2020 Room 2 https://bdren.zoom.us/j/68481035483?pwd=OFN3TXI4M0RpeURuU3h3WmxMNH pkZz09 (ID: 684 8103 5483, Passcode: 417561)
4:00 PM – 4:30 PM	Prayer Break, and Networking
4:30 PM – 5:30 PM	Students' Poster Presentation: 3-Minute Enlightening Talk [Session Chair - Dr. Md. Shohrab Hossain, Professor, CSE, BUET, Bangladesh] Webinar Link: NSysS 2020 Room 1 https://bdren.zoom.us/j/66021921077?pwd=R0JQYU1wcVdsUkEydC9CNmdQTjR0 QT09 (ID: 660 2192 1077, Passcode: 644639)
5:30 PM - 6:00 PM	Prayer Break
6:00 PM – 7:00 PM	Closing Session

Closing Session		
December 24, 2020 6:00 PM - 7:00 PM		
Webinar Link: NSysS 2020 Closing Session https://bdren.zoom.us/j/62148685841?pwd=SGk2SGN1Z1MzejVUclVnR29YWEZUZz09 (ID: 621 4868 5841, Passcode: 634503)		
6:00 PM – 6:05 PM	Welcome speech from Local Organizing Co-Chair (Dr. M. Kaykobad, Distinguished Professor, Brac University, Bangladesh)	
6:05 PM – 6:10 PM	Conference statistics from TPC Co-Chair (Dr. Muhammad Abdullah Adnan, Associate Professor, Bangladesh University of Engineering and Technology, Bangladesh)	
6:10 PM – 6:15 PM	Speech & announcement of awards from TPC Co-Chair (Dr. Latifur Khan, Professor, University of Texas at Dallas)	
6:15 PM – 6:30 PM	Speeches from valued Financial Co-sponsors	
6:30 PM – 6:35 PM	Speech from the Special Guest (Dr. Raouf Boutaba, Professor, University of Waterloo, Canada and Member of the Steering Committee, NSysS 2020)	

6:35 PM – 6:40 PM	Speech from the Special Guest (Dr. Abdul Jabbar Khan, Professor & Honorable Pro-Vice Chancellor, Bangladesh University of Engineering and Technology, Bangladesh)
6:40 PM – 6:55 PM	Speech from the Chief Guest (Dr. Satya Prasad Majumder, Professor & Honorable Vice Chancellor, Bangladesh University of Engineering & Technology, Bangladesh)
6:55 PM – 7:00 PM	Closing remarks and vote of thanks from General Co-Chair (Dr. A.K.M. Ashikur Rahman, Professor & Head, Department of CSE, Bangladesh University of Engineering and Technology, Bangladesh)

Welcome Session		
December 22, 2020 10:45 AM - 12:00 PM		
Webinar Link: NSysS 2020 Welcome Session https://bdren.zoom.us/j/64728878540?pwd=MGF4OU1wUU9rN2oySzVOdGQ3a3E4Zz09 (ID: 647 2887 8540, Passcode: 145949)		
10:45 AM - 10:50 AM	Welcome speech from Local Organizing Co-Chair (Dr. M. Kaykobad, Distinguished Professor, Brac University, Bangladesh)	
10:50 AM - 10:55 AM	Speech from General Co-Chair (Dr. A.K.M. Ashikur Rahman, Professor & Head, Department of CSE, Bangladesh University of Engineering and Technology, Bangladesh)	
10:55 AM - 11:05 AM	Speech from Dr. Syed Mahbubur Rahman (Former Head, Department of CSE, Bangladesh University of Engineering and Technology, Bangladesh)	
11:05 AM - 11:15 AM	Presentation on Departmental History	
11:15 AM - 12:00 PM	Alumni Session Moderator - Dr. Latifur Khan, Professor, Computer Science, UT Dallas, USA	
	Batches: 86, 87, and more.	