

The 24th International Conference on Computer and Information Technology (ICCIT 2021)

Conference Program Schedule

Day 1: Saturday, 18 December 2021

Venue: Virtual Platform, North South University (NSU)

| Time | Events |
|--|--|
| 08:25am | Participants login to the conference program via Zoom |
| <p style="text-align: center;"><u>Inauguration Ceremony</u> <u>Time: 8:30am - 9:30am</u> Virtual Program Link (Using Zoom): https://zoom.us/j/95713350055?pwd=Q09YeHRWcEUwbkltTWGVGMzFkZ3Vudz09 Zoom ID: 957 1335 0055 Password: 450888 Live Broadcast on: https://www.facebook.com/ICCIT2021atNSU</p> <p>Session Chair: Prof. Dr. Mohammad A. Karim, University of Massachusetts - Dartmouth, USA MC: Ms. Mayesha Tafannum, Electrical and Computer Engineering Department, NSU</p> | |
| 08:30am - 08:31am | Call to Order |
| 08:31am - 08:34am | Recitation from the Holy Quran by Mehedi Hasan Refat, ECE Department, NSU |
| 08:35am - 08:45am | Welcome Address by Prof. Dr. Atiqul Islam, Vice Chancellor, NSU |
| 08:45am - 08:50am | Speech by Conference General Chair, Prof. Dr. Mohammad S. Alam, Texas A&M University - Kingsville, USA |
| 08:50am - 08:55am | Speech by Special Guest, Mr. M. Riyaaz Rasheed, Acting CEO, Robi Axiata Limited |
| 08:55am - 09:00am | Speech by the Chair of the Inauguration Ceremony, Prof. Dr. Mohammad A. Karim, University of Massachusetts - Dartmouth, USA |
| 09:00 am- 09:10 am | Speech by Special Guest, Mr. Azim Uddin Ahmed, Chairman, Board of Trustees, NSU |
| 09:10am - 09:25am | Speech by Chief Guest, Mr. Mustafa Jabbar, Honorable Minister of Posts, Telecommunications and Information Technology, Government of the People's Republic of Bangladesh |
| 09:25:am- 09:30 am | Vote of Thanks, Organizing Committee Chair, Dr. Mohammad Rezaul Bari, NSU |

Day 1: Saturday, 18 December 2021

| Time | Events |
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| 09:30am - 1:00pm (10:30pm EST, 09:30pm CST, 07:30pm PST) | <p style="text-align: center;"><u>Plenary Session</u></p> <p style="text-align: center;">Virtual Program Link (Using Zoom) : https://zoom.us/j/98822976732?pwd=QVNSYmNKUXFkUjZYVEJPVUJHTFFoQT09 Zoom ID: 988 2297 6732 Password: 489193 Live Broadcast on: https://www.facebook.com/ICCIT2021atNSU</p> <p style="text-align: center;">Session Chair: Prof. Dr. Mohammad S. Alam Fellow - IEEE, IET, OSA, SPIE, IoP, IS&T, AIAA, IAPR, AAAS Texas A&M University - Kingsville, USA</p> <p>Keynote Address 1: Prof. Dr. Jie Wu, Fellow - IEEE, AAAS Laura H. Carnell Professor, Temple University, USA <i>On Partitioning and Scheduling of DNNs in Mobile Edge/Cloud Computing</i></p> <p>Keynote Address 2: Prof. Dr. Mohammed Atiquzzaman Edith J. Kinney Gaylord Presidential Professor University of Oklahoma, USA <i>Internet of Space Things: Challenges and Future Directions</i></p> <p>Keynote Address 3: Dr. Thomas Lu, Senior Researcher Jet Propulsion Laboratory, California Institute of Technology <i>An Explainable AI Assistant for First Responder Driver Safety</i></p> <p>Keynote Address 4: Prof. Dr. Mohsen Guizani, Fellow - IEEE Qatar University, Qatar Machine Learning Use in Internet of Things (IoT) Applications</p> <p style="text-align: center;">(45 minutes for each speaker including 5 minutes for Q&A)</p> |
| 01:00pm - 02:00pm | Lunch and Prayer Break |
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| <p>02:00pm - 04:30pm</p> | <p style="text-align: center;"><u>Panel I</u></p> <p>Towards the Realization of Digital Bangladesh - Prospects and Challenges</p> <p>Virtual Program Link (Using Zoom) : https://zoom.us/j/91677822117?pwd=MFZXdnB3S0lFSUZHRXBLSXBuc2dWUT09 Zoom ID: 916 7782 2117 Password: 661296 Live Broadcast on : https://www.facebook.com/ICCIT2021atNSU</p> <p>Panel Moderator: Prof. Dr. Mohammad A. Karim, Fellow - IEEE, IET, OSA, SPIE, IoP University of Massachusetts - Dartmouth, USA MC: Ms. Mayesha Tafannum, Electrical and Computer Engineering Department, NSU</p> <p>Panel Members:</p> <ul style="list-style-type: none">• Prof. Dr. M. Kaykobad, BRAC University• Dr. Khandoker Azizul Islam, Additional Secretary, Information and Communication Technology Division• Mr. Syed Almas Kabir, President, Bangladesh Association of Software and Information Services• Mr. Mohammed Shahedul Alam, Chief Corporate and Regulatory Officer, Robi Axiata• Prof. Dr. Mohammad Shorif Uddin, President, Bangladesh Computer Society• Dr. Bikarna Kumar Ghosh, Managing Director, Bangladesh Hi-Tech Park Authority |
| <p>04:30pm - 05:45pm</p> | <p>Tea and Prayer Break</p> |

5:45pm -
7:45pm

Panel II

The Importance of Accreditation in Engineering Education

Virtual Program Link (Using Zoom) :

<https://zoom.us/j/92120549277?pwd=M2xzNVExaTBLZFJJaDJYZUh1YzFKQT09>

Zoom ID: 921 2054 9277 **Password:** 618793

Live Broadcast on : <https://www.facebook.com/ICCIT2021atNSU>

Panel Moderator Prof. Dr. Muhammad H. Rashid, Life Fellow - IEEE, Fellow - IET
Florida Polytechnic University, Lakeland, Florida, USA

Panel Members:

Prof. Dr. Anisul Haque, East West University

Prof. Dr. Arshad M. Chowdhury, Brac University

Day 2: Sunday, 19 December 2021

9:00am -
10:30am
**Technical
Session-1**
(4 Parallel
Sessions)
(12 minutes
for
presentation
and 3
minutes for
Q&A)

Parallel Session 1.1: Computer Vision (CV – I)

Session Chairs:

Prof. Dr. Mohammad Shorif Uddin, Jahangirnagar University;

Prof. Dr. Md. Al Mamun, Rajshahi University of Engineering and Technology (RUET)

Paper ID: 57, 58, 65, 112, 186, 188

Virtual Program Link (Using Zoom) :

<https://zoom.us/j/97850276503?pwd=REhlKzBidDYxdlWUXN5ZkFMcW5sZz09>

Zoom ID: 978 5027 6503

Password: 829488

Live Broadcast on : <https://www.facebook.com/ICCITNSULiveFeed01/>

Parallel Session 1.2: Natural Language Processing (NLP – I)

Session Chairs:

Prof. Dr. Syed Akhter Hossain, University of Liberal Arts Bangladesh (ULAB);

Prof. Dr. Mohammad Nurul Huda, United International University (UIU)

Paper ID: 66, 67, 68, 78, 94

Virtual Program Link (Using Zoom) :

<https://zoom.us/j/99488939934?pwd=U2RhUms4VmN1dDVhUS82WVFYTkpLdz09>

Zoom ID: 994 8893 9934

Password: 054313

Live Broadcast on : <https://www.facebook.com/24th-ICCIT-2021NSU-Livefeed02-106306201880779/>

Parallel Session 1.3: Computer Networks Security and IoT (CNSI-I)

Session Chairs:

Prof. Dr. Salekul Islam, United International University (UIU);

Prof. Dr. Muhammad Aminul Haque Akhand, Khulna University of Engineering and Technology (KUET)

Paper ID: 19, 45, 109, 118, 134, 253

Virtual Program Link (Using Zoom)

<https://zoom.us/j/98431570204?pwd=bW5obVRYeDQyZ0NoUGdlK3FTN3lYZz09>

Zoom ID: 984 3157 0204

Password: 242396

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| | <p>Live Broadcast on : https://www.facebook.com/ICCITNSULiveFeed03/</p> <hr/> <p>Parallel Session 1.4: Computer and Mobile Applications (CMA – I)</p> <p>Session Chairs: Prof. Dr. Md. Faruk Hossain, Rajshahi University of Engineering and Technology (RUET) ; Prof. Dr. Md. Mamun-Or-Rashid, Dhaka University</p> <p>Paper ID: 190, 226, 232, 238, 251, 257</p> <p>Virtual Program Link (Using Zoom): https://zoom.us/j/92033341534?pwd=TmVxai92RmJtNk55aUx0Yk5BSFo2dz09</p> <p align="center">Zoom ID: 920 3334 1534 Password: 090480</p> <p>Live Broadcast on : https://www.facebook.com/24th-ICCIT-2021NSU-LiveFeed04-113095174521805</p> |
| 10:30am - 12:00 pm Technical Session-2 (3 Parallel Sessions) (12 minutes for presentation and 3 minutes for Q&A) | <p>Parallel Session 2.1: Computer Networks Security and IoT (CNSI–II)</p> <p>Session Chairs: Prof. Dr. Md. Mahbubur Rahman, Military Institute of Science and Technology (MIST); Associate Prof. Mr. Mohammad Moinul Hoque, Ahsanullah University of Science and Technology (AUST)</p> <p>Paper ID: 168, 199, 233, 247, 261</p> <p>Virtual Program Link (Using Zoom): https://zoom.us/j/93196773672?pwd=QXh6anhCY29pUmUrM0lRbXdPNnhGQT09</p> <p align="center">Zoom ID: 931 9677 3672 Password: 855150</p> <p>Live Broadcast on : https://www.facebook.com/ICCITNSULiveFeed01/</p> <hr/> <p>Parallel Session 2.2: Wireless Communication (WL – I)</p> <p>Session Chairs: Prof. Dr. Shahriar Khan, Independent University Bangladesh (IUB); Prof. Dr. Md. Shariful Islam, Dhaka University</p> <p>Paper ID: 13, 136, 140, 258</p> |

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| | <p>Virtual Program Link (Using Zoom): https://zoom.us/j/98309758234?pwd=Ym1DZ1dFbkt2QUNiUHBhQXhkT05qUT09</p> <p align="center">Zoom ID: 983 0975 8234 Password: 760085</p> <p>Live Broadcast on : https://www.facebook.com/24th-ICCIT-2021NSU-Livefeed02-106306201880779/</p> <hr/> <p>Parallel Session 2.3: VLSI and Electronic Circuits (VEC – I)</p> <p>Session Chair: Prof. Dr. A. K. M. Baki, Ahsanullah University of Science and Technology (AUST)</p> <p>Paper ID: 14, 18, 51</p> <p>Virtual Program Link (Using Zoom): https://zoom.us/j/97349978699?pwd=ZDIRUFJxcUhmejhwcVI2RWxFbVRhdz09</p> <p align="center">Zoom ID: 973 4997 8699 Password: 803189</p> <p>Live Broadcast on : https://www.facebook.com/ICCITNSULiveFeed03/</p> |
| <p>12:00pm - 1:00pm</p> | <p align="center">Session by Robi Axiata Limited</p> <p>Virtual Program Link (Using Zoom): https://zoom.us/j/99119703483?pwd=WmlVQU5jRU4s4VWpjbEtBcXY4cFdlZz09</p> <p align="center">Zoom ID: 991 1970 3483 Password : 722422</p> |
| <p>1:00-2:00 PM</p> | <p>Lunch Break</p> |
| <p>2:00pm – 3:30pm</p> | <p align="center">Sponsor Session</p> <ul style="list-style-type: none"> • Metafour Limited • Dynamic Solution Innovators <p>Virtual Program Link (Using Zoom): https://zoom.us/j/99746082164?pwd=M01tMkkzd1JRaTJzL2k4SXVCZUxOZz09</p> <p align="center">Zoom ID: 997 4608 2164 Password: 283020</p> |
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| 3:30pm – 4:30 pm | <p style="text-align: center;">Workshop I</p> <p style="text-align: center;">5G and Beyond: Opportunities and Challenges</p> <p>Virtual Program Link (Using Zoom): https://zoom.us/j/95772730374?pwd=bWhvUHBFeU1teU1MTHl4T2hEdVdIZz09</p> <p>Zoom ID: 957 7273 0374 Password: 847736</p> <p>Live Broadcast on: https://www.facebook.com/ICCIT2021atNSU</p> <p>Session Moderator: Dr. Mohammad Monirujjaman Khan, North South University (NSU)</p> <p>Speakers:</p> <ul style="list-style-type: none">• Prof. Dr. Md. Farhad Hossain, BUET• Brig. Gen. Md. Nasim Parvez, Director General, Systems and Services Division, BTRC• Dr. Md. Rafiqul Matin, Managing Director, BTCL• Mr. Ruhul Amin, Chief Strategy Officer, Robi Axiata |
| 4:30-5:30 PM | Prayer Break |
| 05:30pm - 06:30pm | <p style="text-align: center;">IEEE Bangladesh Section Workshop</p> <p>Virtual Program Link (Using Zoom): https://zoom.us/j/99475742488?pwd=UE1zajJ5NXBPUIQvN2k0b2Z3U2lMdz09</p> <p>Zoom ID: 994 7574 2488 Password: 439638</p> <p>Live Broadcast on: https://www.facebook.com/ICCIT2021atNSU</p> |
| 6:30pm - 7:30pm | <p style="text-align: center;">Invited Session I</p> <p>Smart and autonomous systems for underwater image processing and simultaneous compression and encryption schemes</p> <p>Speaker: Prof. Dr. Ayman Alfalou</p> <p>Virtual Program Link (Using Zoom): https://zoom.us/j/92105748561?pwd=Zk9zK0ZXQXRGaC9wN3lOd2FXUVd1dz09</p> <p>Zoom ID: 921 0574 8561 Password : 373399</p> <p>Live Broadcast on: https://www.facebook.com/ICCIT2021atNSU</p> |

7:30 pm-
8:30 pm

Invited Session II

A Semi-Supervised Learning Framework for Image Data Annotation

Speaker: Prof. Dr. Vijayan K. Asari

Live Broadcast on: <https://www.facebook.com/ICCIT2021atNSU>

Virtual Program Link (Using Zoom):

<https://zoom.us/j/95940918921?pwd=c3lqM1dNTk5HU041RTBIZU1YNHUwQT09>

Zoom ID: 959 4091 8921 **Password :** 488485

Live Broadcast on: <https://www.facebook.com/ICCIT2021atNSU>

Day 3: Monday, 20 December 2021

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| 9.00am-10.30am | <p style="text-align: center;">Tutorial I</p> <p>Writing Strategies for the Researchers: From Graduate School Application to Grant Application</p> <p>Speakers:</p> <p>Dr. Sheikh Iqbal Ahamed, Professor & Chair, Department of Computer Science Marquette University, USA;</p> <p>Dr. Ishtiaque Ahmed Assistant Professor, Department of Computer Science, University of Toronto, Canada</p> <p>Virtual Program Link (Using Zoom): https://zoom.us/j/99372455316?pwd=dDJEMndac2lXdVlzcUNYZGFIWWZqdz09</p> <p style="text-align: center;">Zoom ID: 993 7245 5316 Password : 840808</p> <p>Live Broadcast on: https://www.facebook.com/ICCIT2021aNSU</p> |
| 11:00am-12.30pm | <p style="text-align: center;">Workshop II</p> <p style="text-align: center;">Machine Learning on AWS Cloud</p> <p>Speaker: Mr. Anjani Phuyal, Global CTO of Genese Solution, London, England</p> <p>Virtual Program Link (Using Zoom): https://zoom.us/j/94815641525?pwd=eEpIdE1UcGdYdllGcVljb2p1U1NvUT09</p> <p style="text-align: center;">Zoom ID: 948 1564 1525 Password : 750218</p> <p>Live Broadcast on: https://www.facebook.com/ICCIT2021atNSU</p> |
| 12.30pm-1.30pm | <p style="text-align: center;">Tutorial II</p> <p style="text-align: center;">Deep Generative Machine Learning and Some Applications</p> <p>Speaker: Prof. Swagatam Das, Associate Professor and Head, Electronics and Communication Sciences Unit, Indian Statistical Institute, West Bengal, India</p> <p>Virtual Program Link (Using Zoom):</p> |

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| | <p>https://zoom.us/j/92534534288?pwd=L1FFMkw4VTYzRldZZC96MkdIenU0Zz09</p> <p>Zoom ID: 925 3453 4288 Password : 063224</p> <p>Live Broadcast on: https://www.facebook.com/ICCIT2021atNSU</p> |
| 1.30pm-3.00pm Technical Session-3 (4 Parallel Sessions) (12 minutes for presentation and 3 minutes for Q&A) | <p>Parallel Session 3.1: Signal and Image Processing (SIP – I)</p> <p>Session Chairs: Prof. Dr. Mohammad Zahidur Rahman, Jahangirnagar University; Prof. Dr. Khademul Islam Molla, Rajshahi University</p> <p>Paper ID: 92, 105, 122, 155, 245</p> <p>Virtual Program Link (Using Zoom): https://zoom.us/j/97128221228?pwd=S1ZramZUWFZOTTIZVGR5WU1XRvZIdz09</p> <p>Zoom ID: 971 2822 1228 Password: 697440</p> <p>Live Broadcast on : https://www.facebook.com/ICCITNSULiveFeed01/</p> |
| | <p>Parallel Session 3.2: VLSI and Electronic Circuits (VEC – II)</p> <p>Session Chairs: Prof. Dr. Arshad M. Chowdhury, Brac University; Prof. Dr. Md. Nawab Yousuf Ali, East West University (EWU)</p> <p>Paper ID: 79, 99, 156, 185, 194</p> <p>Virtual Program Link (Using Zoom): https://zoom.us/j/96003309841?pwd=UXZCbGUxNitnc1ZsMkRDNG8rSk1Jdz09</p> <p>Zoom ID: 960 0330 9841 Password: 817595</p> <p>Live Broadcast on : https://www.facebook.com/24th-ICCIT-2021NSU-Livefeed02-106306201880779/</p> |
| | <p>Parallel Session 3.3: Computer Vision (CV – II)</p> <p>Session Chairs: Prof. Dr. Lafifa Jamal, Dhaka University; Prof. Farah Jahan, Professor, Chittagong University</p> |

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| | <p>Paper ID: 210, 212, 240, 241, 244, 268 Virtual Program Link (Using Zoom): https://zoom.us/j/99340168652?pwd=SUg5ZGNhdk9aa0M1TGw2MmpZRVQ2QT09</p> <p style="text-align: center;">Zoom ID: 993 4016 8652 Password: 717053</p> <p>Live Broadcast on : https://www.facebook.com/ICCITNSULiveFeed03/</p> |
| | <p>Parallel Session 3.4: Machine Intelligence (MI – I)</p> <p>Session Chairs: Prof. Dr. Md Moshikul Hoque, Chittagong University of Engineering and Technology (CUET); Prof. Dr. Engr. Muhibul Haque Bhuyan, Southeast University</p> <p>Paper ID: 12, 35, 46, 64, 85, 119 Virtual Program Link (Using Zoom): https://zoom.us/j/93002837912?pwd=MnRKNW44T3lwa0xZSjdVVKhvenRyQT09</p> <p style="text-align: center;">Zoom ID: 930 0283 7912 Password: 227037</p> <p>Live Broadcast on : https://www.facebook.com/24th-ICCIT-2021NSU-LiveFeed04-113095174521805</p> |
| 3:00 pm- 4.30pm Technical Session-4 (3 Parallel Sessions) (12 minutes for presentation and 3 minutes for Q&A) | <p>Parallel Session 4.1: Machine Intelligence (MI – II)</p> <p>Session Chairs: Prof. Dr. Abu Sayed Md. Latiful Hoque, Bangladesh University of Engineering and Technology (BUET); Prof. Dr. Md. Raju Ahmed, Dhaka University of Engineering and Technology (DUET)</p> <p>Paper ID: 161, 173, 198, 266, 269, 270 Virtual Program Link (Using Zoom): https://zoom.us/j/98280457560?pwd=TUtPK3hPTm94MU16VmFtL2J5Y1pUdz09</p> <p style="text-align: center;">Zoom ID: 982 8045 7560 Password: 026196</p> <p>Live Broadcast on : https://www.facebook.com/ICCITNSULiveFeed01/</p> <hr/> <p>Parallel Session 4.2: Natural Language Processing (NLP – II)</p> <p>Session Chairs: Prof. Dr. Kazi Md. Rokibul Alam, Khulna University of Engineering and Technology (KUET); Associate Prof. Dr. Muhammad Golam Kibria, University of Liberal Arts Bangladesh (ULAB)</p> |

Paper ID: 98, 154, 193, 207, 211, 248

Virtual Program Link (Using Zoom):

<https://zoom.us/j/99536880044?pwd=U1RnTTdvRERoK0tSaTQ0MHVmUXc4dz09>

Zoom ID: 995 3688 0044

Password: 330220

Live Broadcast on : <https://www.facebook.com/24th-ICCIT-2021NSU-Livefeed02-106306201880779/>

Parallel Session 4.3: Algorithm (AL – I)

Session Chairs:

Prof Dr. Md. Ekramul Hamid, Professor, , Rajshahi University;

Prof. Dr. A.K.M. Ashikur Rahman, BUET

Paper ID: 15, 25, 123, 138, 177, 215

Virtual Program Link (Using Zoom):

<https://zoom.us/j/96301917546?pwd=NHhEcjNrbUNBd0xISFhWNXQ1RUprUT09>

Zoom ID: 963 0191 7546

Password: 685946

Live Broadcast on : <https://www.facebook.com/ICCITNSULiveFeed03/>

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Closing Ceremony

(Time: 05:45-06:45 PM)

Virtual Program Link (Using Zoom) :

<https://zoom.us/j/99984023091?pwd=WkFpWEIYMfpZV3VCYnFndFZMWExMQT09>

Zoom ID: 999 8402 3091

Password: 353841

Live Broadcast on : <https://www.facebook.com/ICCIT2021atNSU>

MC: Ms. Mayesha Tafannum, Electrical and Computer Engineering Department, NSU

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| 05:45 pm - 06:00 pm | Participants and Guests Login Using Zoom Link |
| 06:00 pm - 06:05pm | Recitation from the Holy Quran by Mehedi Hasan Refat, ECE Department, NSU |
| 06:05 pm - 06:10 pm | Conference Resume by Organizing Co-Chair, Dr. Rashedur Rahman |
| 06:10 pm - 06:20 pm | Speech by Prof. Javed Bari, Dean, School of Engineering and Physical Sciences (SEPS)., NSU |
| 06:20 pm – 06:30pm | Speech by the Chief Guest, Mr. N M Ziaul Alam PAA, Senior Secretary, Information and Communication Technology Division |
| 06:30 pm- 06:35 pm | Speech by Special Guest, Prof. Dr. M. Ismail Hossain, Honorable Pro-Vice Chancellor, NSU |
| 06:35 pm – 06:45pm | Closing Remarks and Announcement of Awards, Prof. Dr. Mohammad S. Alam, Conference General Chair |
| 06:45 pm – 06:55pm | Vote of Thanks by Organizing Committee Chair, Dr. Mohammad Rezaul Bari, NSU |
| 06:56 pm | Adjourn |

For detailed information on technical sessions, please see the Technical Session Assignment