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Google Scholar: <https://scholar.google.com/citations?user=6Nfg9YcAAAAJ&hl=en&authuser=1>

## Experience

April 2021 -Aug 2024 **Assistant Professor** at Laboratory for Cyber Resilience , Nara Institute of Science and Technology (National University Corporation), **Japan**

2018-2021 **Research Assistant** at Nara Institute of Science and Technology, Japan

2020-present **Guest Lecturer (AI in cyber security) - Industrial Cyber Security Center of Excellence (ICS-CoE)**, Information Technology Promotion Agency, Japan

June 2009- Oct 2018 **Manager-IT** at Emirates Cement BD Ltd (Aditya Birla Group), Bangladesh

## Education

March 2021 **DOCTOR OF ENGINEERING IN INFORMATION SCIENCE AND ENGINEERING (CYBERSECURITY) DEGREE**, Nara Institute of Science and Technology, **Japan**

December 2017 **M.Sc. IN ENGINEERING IN INFORMATION SYSTEMS SECURITY DEGREE**, Bangladesh University of Professionals, Bangladesh

April 2011 **B.Sc. IN COMPUTER SCIENCE AND ENGINEERING DEGREE**, State University of Bangladesh, Bangladesh

## List of Research Grants / Awards

- 1 Collaborative Research: "decentralized AI project", **Japan Society for the Promotion of Science (Kakenhi B)** PI: Hideya Ochiai, Co-PI: **Md Delwar Hossain**, Kanae Matsui: Date: April 2022- March 2025, JPY 20 million.
- 2 NAIST Foreign Researcher Startup Fund: Date: April 2021- March 2022, JPY 4 million.
- 3 Project member of **JST CREST** Grant No. JPMJCR1783, "Real-time attack detection and prediction by analyzing cyber threat big data" (FY 2017 - 2019)
- 4 Project member of **Industrial Cyber Security Center of Excellence (ICS-CoE)**, funded by the Information Technology Promotion Agency of Japan (FY 2017 - 2022)
- 5 NAIST International Scholar (**Research Assistantship**) - Industrial Cyber Security Center of Excellence (ICS-CoE), Japan.
- 6 **Doctoral Fellowship** - ICT Division, Ministry of Posts, Telecommunication and Information Technology, Bangladesh, Grant Number 56.00.0000.028.33.002.19.8.
- 7 **MEXT Scholarship** (October 2019 – March 2020).
- 8 **National Research Foundation Singapore**(Administered by iTrust, Centre for Research in Cyber Security, Singapore University of Technology and Design) - Travel and Accommodation Grant, CISS: Critical Infrastructure Security Showdown 2019.
- 9 Travel Allowance Awarded from Emirates Cement Bangladesh Ltd (Aditya Birla Group) to Attend Int'l Conference ICCCS 2018 in Japan.
- 10 **Japan Science and Technology Agency (JST)** - CREST, Travel Allowance to participate AAAI Program in Hawaii-USA (2019) and New York, USA (2020)
  - a. AAAI 2020 - Thirty-Fourth AAAI Conference on Artificial Intelligence, February 7 - 12, 2020 New York, New York, USA
  - b. AAAI 2019 - Thirty-Third AAAI Conference on Artificial Intelligence, January 27 - February 1, 2019 Honolulu, Hawaii, USA.
- 11 **Industrial Cyber Security Center of Excellence (ICS-CoE)**, Travel Allowance to participate **NDSS 2022** International Conference Program in San Diego-USA (2022) and **Collaborative Research Project** with UT Dallas, Texas, USA
- 12 **Industrial Cyber Security Center of Excellence (ICS-CoE)**, Travel Allowance to participate **ACM CCS 2022** International Conference Program in Los Angeles, California-USA (2022) and **Collaborative Research Project** with UT Dallas, Texas, USA

## Scientometrics

Journal papers: 6 • Conference papers: 28

• Google citations: 385 • h-index: 7 • i10-index: 6

## List of Publication

### Journal (peer-reviewed):

- 1 Abraham, Olufemi Abiodun, Hideya Ochiai, **Md Delwar Hossain**, Yuzo Taenaka, and Youki Kadobayashi. "Electricity Theft Detection for Smart Homes: Harnessing the Power of Machine Learning With Real and Synthetic Attacks." *IEEE Access* 12 (2024): 26023-26045.
- 2 Md. Bayazid Rahman, Hossen Asiful Mustafa, **Hossain, Md Delwar**. "Towards Evaluating Robustness of Violence Detection in Videos Using Cross-Domain Transferability." *Journal of Information Security and Applications*, Volume 77, 2023, 103583, ISSN 2214-2126, <https://doi.org/10.1016/j.jisa.2023.103583>.
- 3 \* **Hossain, Md Delwar**, Hiroyuki Inoue, Hideya Ochiai, Doudou Fall, and Youki Kadobayashi. "LSTM-Based Intrusion Detection System for In-Vehicle Can Bus Communications." *IEEE Access* 8 (2020): 185489-185502.
- 4 \* Kabid Hassan Shibly, **Hossain, Md Delwar**, Hiroyuki Inoue, Yuzo Taenaka and Youki Kadobayashi. "Towards Autonomous Driving Model Resistant to Adversarial Attack." *Applied Artificial Intelligence*, DOI: <https://doi.org/10.1080/08839514.2023.2193461>
- 5 \* Ochiai, Hideya, **Md Delwar Hossain**, Pawissakan Chirupphapa, Youki Kadobayashi, and Hiroshi Esaki. "Modbus/RS-485 Attack Detection on Communication Signals with Machine Learning." *IEEE Communications Magazine* (2023).
- 6 \* Kamaruzzaman, Mohd Ruzeiny, **Md Delwar Hossain**, Yuzo Taenaka, and Youki Kadobayashi. "Mitigation of ADS-B Spoofing Attack Impact on Departure Sequencing through Modulated Synchronous Taxiing Approach." *IEEE Open Journal of Intelligent Transportation Systems* (2023).

### International Conference (peer-reviewed):

- 1 Taisho Sasada, **Md Delwar Hossain**, Yuzo Taenaka, Md. Mahbubur Rahman and Youki Kadobayashi. "Secure Federated Matrix Factorization via Shuffling Encrypted Parameters between Devices." In The 16th International Conference on Intelligent Networking and Collaborative Systems (INCoS-2024), **Accepted**.
- 2 Rownak Borhan, **Md Delwar Hossain**, Yuzo Taenaka, and Youki Kadobayashi. "IOSHA - An Enhanced Hash Function for Secure and Efficient Key Generation in CRYSTALS-Dilithium for IoT." In the International Conference on Quantum Communications, Networking, and Computing (QCNC 2024), **Accepted**.
- 3 Ferdous Aurna, N., **Hossain, M.**, Ochiai, H., Taenaka, Y., Khan, L. and Kadobayashi, Y., "Banking Malware Detection: Leveraging Federated Learning with Conditional Model Updates and Client Data Heterogeneity." In Proceedings of the 10th International Conference on Information Systems Security and Privacy - ICISSP 2024; ISBN 978-989-758-683-5; ISSN 2184-4356.
- 4 Rahman, Md Mahbubur, **Md Delwar Hossain**, Hideya Ochiai, Yuzo Taenaka, and Youki Kadobayashi. "Vision Based Malware Classification using Deep Neural Network with Hybrid Data Augmentation." In the International Conference on Information Systems Security and Privacy (ICISSP 2024), ISBN 978-989-758-683-5; ISSN 2184-4356, SciTePress, pages 823-830.
- 5 Halim, Sadaf MD, **Md Delwar Hossain**, Latifur Khan, Anoop Singhal, Hiroyuki Inoue, Hideya Ochiai, Kevin W. Hamlen, and Youki Kadobayashi. "Securing Smart Vehicles Through Federated Learning." In International Symposium on Foundations and Practice of Security, pp. 18-35. Cham: Springer Nature Switzerland, 2023.

- 6 Hossain, Md Sharafat, **Md Delwar Hossain**, Md Mahbubur Rahman, Yuzo Taenaka, Md Saiful Islam, and Youki Kadobayashi. "A Comparative Performance Analysis of Android Malware Classification Using Supervised and Semi-supervised Deep Learning." In 2023 16th International Conference on Security of Information and Networks (SIN), pp. 1-8. IEEE, 2023.
- 7 Aurna, Nahid Ferdous, **Md Delwar Hossain**, Yuzo Taenaka, and Youki Kadobayashi. "Federated Learning-Based Credit Card Fraud Detection: Performance Analysis with Sampling Methods and Deep Learning Algorithms." In 2023 IEEE International Conference on Cyber Security and Resilience (CSR), pp. 180-186. IEEE, 2023.
- 8 Shibly, Kabid Hassan, **Md Delwar Hossain**, Hiroyuki Inoue, Yuzo Taenaka, and Youki Kadobayashi. "A Feature-Aware Semi-Supervised Learning Approach for Automotive Ethernet." In 2023 IEEE International Conference on Cyber Security and Resilience (CSR), pp. 426-431. IEEE, 2023.
- 9 Li, Xiaodi, **Md Delwar Hossain**, Hideya Ochiai, and Latifur Khan. "2MiCo: A Contrastive Semi-Supervised Method with Double Mixup for Smart Meter Modbus RS-485 Communication Security." In 2023 IEEE 9th Intl Conference on Big Data Security on Cloud (BigDataSecurity), IEEE Intl Conference on High Performance and Smart Computing (HPSC) and IEEE Intl Conference on Intelligent Data and Security (IDS), pp. 30-39. IEEE, 2023.
- 10 Ochiai, Hideya, **Md Delwar Hossain**, Youki Kadobayashi, and Hiroshi Esaki. "Attacker Localization with Machine Learning in RS-485 Industrial Control Networks." In 2023 IEEE 19th International Conference on Factory Communication Systems (WFCS), pp. 1-8. IEEE, 2023.
- 11 \* Abraham, Olufemi A., Hideya Ochiai, **Md Delwar Hossain**, Yuzo Taenaka, and Youki Kadobayashi. "Electricity Theft Detection for Smart Homes with Knowledge-Based Synthetic Attack Data." In 2023 IEEE 19th International Conference on Factory Communication Systems (WFCS), pp. 1-8. IEEE, 2023.
- 12 Hersyah, Mohammad Hafiz, **Md Delwar Hossain**, Yuzo Taenaka, and Youki Kadobayashi. "A Risk Assessment Study: Encircling Docker Container Assets on IaaS Cloud Computing Topology." In 2023 6th Conference on Cloud and Internet of Things (CIoT), pp. 225-230. IEEE, 2023.
- 13 **Hossain, Md Delwar**, Hideya Ochiai, Latifur Khan, and Youki Kadobayashi. "Smart Meter Modbus RS-485 Intrusion Detection by Federated Learning Approach." In 2023 15th International Conference on Computer and Automation Engineering (ICCAE), pp. 559-564. IEEE, 2023.
- 14 Kamaruzzaman, Mohd Ruzeiny, **Mohammad Delwar Hossain**, Yuzo Taenaka, and Youki Kadobayashi. "ATC Level Tactical Manoeuvring during Descent for Mitigating Impact of ADS-B Message Injection Cyber Attack." Engineering Proceedings 28, no. 1 (2022): 14.
- 15 Shibly, Kabid Hassan, **Md Delwar Hossain**, Hiroyuki Inoue, Yuzo Taenaka, and Youki Kadobayashi. "Personalized Federated Learning for Automotive Intrusion Detection Systems." In 2022 IEEE Future Networks World Forum (FNWF), pp. 544-549. IEEE, 2022.
- 16 Abraham, Olufemi Abiodun, Hideya Ochiai, Kabid Hassan Shibly, **Md Delwar Hossain**, Yuzo Taenaka, and Youki Kadobayashi. "Unauthorized Power Usage Detection Using Gradient Boosting Classifier in Disaggregated Smart Meter Home Network." In 2022 IEEE Future Networks World Forum (FNWF), pp. 688-693. IEEE, 2022.

- 17 Chirupphapa, Pawissakan, **Md Delwar Hossain**, Hiroshi Esaki, and Hideya Ochiai. "Unsupervised Anomaly Detection in RS-485 Traffic using Autoencoders with Unobtrusive Measurement." In 2022 IEEE International Performance, Computing, and Communications Conference (IPCCC), pp. 17-23. IEEE, 2022.
- 18 **Hossain, Md Delwar**, Hideya Ochiai, Tatsuya Arisawa, and Youki Kadobayashi. "Smart Meter Modbus RS-485 Spoofing Attack Detection by LSTM Deep Learning Approach." In 2022 9th Swiss Conference on Data Science (SDS), pp. 47-52. IEEE, 2022.
- 19 Mohd Ruzeiny Bin Kamaruzzaman, Doudou Fall, **Hossain, Md Delwar**, Yuzo Taenaka, Youki Kadobayashi, "Modulated Synchronous Taxiing: Mitigating Uncertainties Amid ADS-B Spoofing", In Proceedings of the 2022 22nd Integrated Communication, Navigation and Surveillance Conference (ICNS), May 2022. DOI: 10.1109/ICNS54818.2022.9771477.
- 20 Halim, Sadaf MD, Latifur Khan, Kevin W. Hamlen, Bhavani Thuraisingham, and **Md Delwar Hossain**. "A Federated Approach for Learning from Electronic Health Records." In 2022 IEEE 8th Intl Conference on Big Data Security on Cloud (BigDataSecurity), IEEE Intl Conference on High Performance and Smart Computing,(HPSC) and IEEE Intl Conference on Intelligent Data and Security (IDS), pp. 218-223. IEEE, 2022.
- 21 Shibly, Kabid Hassan, **Md Hossain**, Hiroyuki Inoue, Yuzo Taenaka, and Youki Kadobayashi. "Autonomous Driving Model Defense Study on Hijacking Adversarial Attack." In 2022 31st International Conference on Artificial Neural Networks (ICANN 2022), pp. 546-557. Springer, Cham, 2022.
- 22 **Hossain, Md Delwar**, Hiroyuki Inoue, Hideya Ochiai, Doudou Fall, and Youki Kadobayashi. "An effective in-vehicle CAN bus intrusion detection system using CNN deep learning approach." In GLOBECOM 2020-2020 IEEE Global Communications Conference, pp. 1-6. IEEE, 2020.
- 23 **Hossain, Md Delwar**, Hiroyuki Inoue, Hideya Ochiai, Doudou Fall, and Youki Kadobayashi. "Long short-term memory-based intrusion detection system for in-vehicle controller area network bus." In 2020 IEEE 44th Annual Computers, Software, and Applications Conference (COMPSAC), pp. 10-17. IEEE, 2020.
- 24 **Hossain, Md Delwar**, Hideya Ochiai, Doudou Fall, and Youki Kadobayashi. "LSTM-based Network Attack Detection: Performance Comparison by Hyper-parameter Values Tuning." In 2020 7th IEEE International Conference on Cyber Security and Cloud Computing (CSCloud)/2020 6th IEEE International Conference on Edge Computing and Scalable Cloud (EdgeCom), pp. 62-69. IEEE, 2020.
- 25 **Hossain, Md Delwar**, Hideya Ochiai, Fall Doudou, and Youki Kadobayashi. "SSH and FTP brute-force Attacks Detection in Computer Networks: LSTM and Machine Learning Approaches." In 2020 5th International Conference on Computer and Communication Systems (ICCCS), pp. 491-497. IEEE, 2020.
- 26 **Md Delwar Hossain**, Muhammad Abdullah Adnan, "Secured and High Performance Distributed Big Data Storage in Cloud Systems," Proc. of the 3rd IEEE International Conference on Computer and Communication Systems (IEEE ICCCS 2018).
- 27 Niaz Makhdum Muhammad, **Md Delwar Hossain**, "Asian Virtual University: An Epoch-making Concept", International Technology, Education and Development Conference (INTED), 2007.

**Workshop (peer-reviewed):**

1. Mohammad Hafiz Hersyah, **Md Delwar Hossain**, Yuzo Taenaka, Youki Kadobayashi, "Nexus Revealed: Calibrating the Link between Dark Triad Traits and Insider Threats in Cloud Territories", WRIT – Workshop on Research for Insider Threats, In Proceedings of the Annual Computer Security Applications Conference (ACSAC) conference, 2023 (Accepted)
2. Sadaf MD Halim, **Md. Delwar Hossain**, Latifur Khan, Hideya Ochiai, Hiroyuki Inoue, Kevin W. Hamlen, Anoop Singhal, Youki Kadobayashi "Federated Learning for Securing Smart Vehicles", In Proceedings of the Annual Computer Security Applications Conference (ACSAC 2022), **poster presentation**, December 2022.

#### Journal Submitted (peer-reviewed):

1. Mohammad Hafiz Hersyah, **Md Delwar Hossain**, Yuzo Taenaka, Youki Kadobayashi, "Fuzzy-fortify Harmony: Integrating Multi- Attribute Risk Assessment with Multi-Factor Authentication for Container Ecosystems", Springer Journal of Cloud Computing (Under Review)
2. Ferdous Aurna, N., **Md Delwar, Hossain**, Latifur Khan, Yuzo Taenaka and Youki Kadobayashi, "FedFusion: Adaptive Model Fusion for Addressing Feature Discrepancies in Federated Credit Card Fraud Detection.", IEEE Access (Under Review)

#### Seminar/Talk

- 2023 WIDE Meeting Invited Talk (AI for cyber-physical systems security) - **The University of Tokyo**, Japan
- 2023 Seminar Lecturer (Securing Automotive and Industrial Control Systems Using Deep Learning) - **Tallinn University of Technology**, Estonia
- 2023 Seminar Lecturer (AI in Cybersecurity) - **Bangladesh University of Engineering and Technology**, Bangladesh
- 2023 Seminar Lecturer (Securing Automotive and Industrial Control Systems Using Deep Learning) - **Daffodil International University**, Bangladesh
- 2021 Guest Lecture (AI in cyber security) - **The University of Tokyo**, Japan
- 2021 Seminar Lecturer (AI in cyber security) - **Bangladesh University of Engineering and Technology**, Bangladesh
- 2022 Seminar Lecturer (AI in cyber security) - **Bangladesh University of Engineering and Technology**, Bangladesh
- 2022 Seminar Lecturer (AI in cyber security) - **Canadian University of Bangladesh**, Bangladesh
- 2022 Seminar Lecturer (AI in cyber security) - **Daffodil International University of Bangladesh**, Bangladesh
- 2022 Seminar Lecturer (AI in cyber security) - **Chittagong University of Engineering and Technology**, Bangladesh

#### Professional Experience as a Manager - IT

Major Responsibilities:

IT: -

1. Plan and direct the overall IT activities of the business, which involves clusters of various systems and applications, ensuring that the various systems are in line with each other in order to maximize efficiencies and integration opportunities
2. Drive the ongoing development and implementation of various business systems and applications, ensuring that these not only meet the needs of the business but are also managed in accordance with best practice project management processes

Table 1: Technical Trainings

Title	Subject	Duration	Institute	Location
<b>MCSE 2003</b>	–	2 Months	NIIT Ltd.	Bangladesh
<b>Oracle 10g</b>	Admin I and II	80 Hours	Base Ltd.	Bangladesh
<b>CCNA</b>	CCNA	72 Hours	New Horizon	Bangladesh
<b>CCNP</b>	CCNA S & R	144 Hours	New Horizon	Bangladesh
<b>Faculty Training</b>	Advanced Java	80 Hours	NIIT Ltd.	Bangladesh
<b>Faculty Training</b>	Hardware & Networking	56 Hours	NIIT Ltd.	Bangladesh
<b>Faculty Training</b>	Linux	24 Hours	NIIT Ltd.	Bangladesh
<b>Faculty Training</b>	Linux ISP Setup	40 Hours	NIIT Ltd.	Bangladesh
<b>SAP ERP</b>	SAP FICO, MM, SD	3 Days	Star Cement Co LLC.	UAE
<b>IT</b>	Fortiget Firewall, NAS Storage, AD	7 Days	Star Cement Co LLC.	UAE
<b>SAP and IT</b>	SAP PP & QM/ AD, NAS, CISCO	7 Days	UltraTech Cement	India
<b>SAP SD</b>	SAP SD	3 Days	UltraTech Cement	India
<b>SAP FICO</b>	SAP FICO	2 Days	UltraTech Cement	India

3. Managing and Maintenance Window Servers
4. Configuration and Maintain AD Group Policy.
5. Managing, Maintenance NAS Storage and Regular Backup.
6. Configuration, Maintenance Fortiget Firewall and VPN connectivity at Dhaka-Plant-Dubai
7. Managing, Maintenance and Configuration CISCO Switches and Routers
8. Manage SOPHOS AV
9. Administering Microsoft Windows 2008 Server, PDC and ADC in client-server environment
10. Conduct IT Training for newly joined staff
11. Prepare IT and Capex Budget and Procurement of all IT products
12. Monthly Reporting to Dubai and Mumbai Overall IT operation
13. Managing and Implement Group IT and Security policy

Project Co-ordinator SAP ERP:

1. Project Manager SAP ERP - FICO, SD, MM, PP, PM, QM, IM-PS Modules
2. Single point contact for the users and working as a bridge between the Core Team and Consultant
3. Plan and execute the day-to-day activities of information technology (IT) advisory engagements, specific to sales and distribution, materials management, and production planning, Plant Maintenance, Finance Controlling, Quality Management, Investment Management Project Systems (SD, MM, PP, PM, FICO, QM)
4. Assist with scoping prospective engagements and developing proposals. Maintain and enforce Group IT strategy, standards and procedures at all times Show strong commitment in all engagements and remain flexible to best optimize resources and skills including for self. ☒ Gather business demand and understand, document, estimate & prioritize business requirements across affected business area

## Research Collaboration

- 1 Latifur Khan, Professor, **The University of Texas at Dallas, USA.**
- 2 Elmar Padilla, Professor, **Fraunhofer, Germany.**
- 3 Hiroyuki Inoue, Professor, Kyoto Sangyo University, Japan.
- 4 Hideya Ochiai, Associate Professor, The University of Tokyo, Japan.
- 5 Hayretidin Bahsi, Professor, Tallinn University of Technology, **Estonia.**
- 6 Bernhards Blumbergs, Lead cyber security expert CERT.LV, **Latvia.**
- 7 Kimmo Halunen, Professor, The University of Oulu **Finland.**
- 8 Hossen Asiful Mustafa, Associate Professor, Bangladesh University of Engineering and Technology, **Bangladesh.**
- 9 Doudou Fall, Associate Professor, École Supérieure Polytechnique, University Cheikh Anta Diop of Dakar, Dakar, **Senegal.**
- 10 Miss Laiha Binti Mat Kiah, Department of Computer System & Technology, Faculty of Computer Science and Information Technology, University of Malaya, **Malaysia.**

## Research Interest

- 1 AI in Cyber-Physical Systems Security
- 2 Automotive Security
- 3 Industrial Control Systems Security
- 4 Energy Security
- 5 Robotics Security
- 6 Unmanned Aerial Vehicle (UAV) Security
- 7 Network Security
- 8 Explainable AI

## Mentor (Co-advisor) Masters/Ph.D. students

### Graduated Ph.D.:

- 1 Mohd Ruzeiny Bin Kamaruzzaman
- 2 Abraham Olufemi Abiodun
- 3 Kabid Hassan Shibly

### Doctoral Students:

- 1 Mohammad Hafiz Hersyah
- 2 Nahid Ferdous Aurna
- 3 Manlaibaatar Tserenkhuu



- 4 Md. Rawshan Alam (The University of Malaya, Malaysia)

**Masters Students:**

- 1 Pacharawan Tongiam
- 2 Festus Edward Ndalama
- 3 Rownak Borhan Himel
- 4 Oluwatobi Oyebole Olewale
- 5 Saiful Islam (Bangladesh University of Professionals)

## Service Administrative

1. Served as a “Chair” for the Colloquium B
2. Served as a “Summer and Winter Seminar” organizing committee member
3. Served as a member for the “Entrance Exam” committee
4. Served as a “Proctor” of the “TOEIC” test
5. Served as a “Program Co-chair” of the “2nd NAIST International Symposium On Data Science”

## Statement of Other Activities Related to Education and Research

**Academic Membership:**

1. IEEE Membership
2. IEEE Communication Society Membership

## Professional services

**Reviewer:**

- 1 **Elsevier Computers and Security Journal**, impact factor is 5.6
- 2 **IEEE Access**, impact factor is 3.55
- 3 **Elsevier Pervasive and Mobile Computing**, impact factor 4.3
- 4 **EAI SecureComm 2023 - 19th EAI International Conference on Security and Privacy in Communication Networks**
- 5 **COMPSAC 2021 [Workshop] AIOT 2021: Advanced IoT Computing)**

**Program Committee Member:**

- 1 11th IEEE Swiss Conference on Data Science (SDS 2024), Zurich, Switzerland.
- 2 2nd International Conference on Information and Communication Technology (ICICT 2024), Dhaka, Bangladesh.
- 3 The 20th Artificial Intelligence Applications and Innovations (AIAI 2024) and 25th Engineering Applications of Neural Networks / Advances of Artificial Intelligence (EANN / EAAAI 2024) joint International Conferences, Greece.

- 4 The 31st International Conference on Artificial Neural Networks (ICANN 2022), United Kingdom.
- 5 10th IEEE Swiss Conference on Data Science (SDS 2023), Zurich, Switzerland.
- 6 The 32nd International Conference on Artificial Neural Networks (ICANN 2023), Greece.

**Session Chair:**

- 1 The 15th International Conference on Computer and Automation Engineering (ICCAE 2023), Sydney, Australia, March 2023.

**Judge:** CTO Forum Bangladesh Innovation Hackathon 2021