



DR. JAHAN ALI

-Program Leader /Senior Lecturer

RESEARCH OUTPUTS

Jahan Ali, Hakilo Sabit, A. Al-Jumaily, Deloar. "Machine Learning-Based Detection of Respiratory Diseases Using Audio Signals": IEEE Conference on Computing, Applications and Systems (COMPAS 2024) Submitted.

Sarkar, N. I., Kavitha, A. T., & Ali, M. J. (2022). A secure long-range transceiver for monitoring and storing IoT data in the cloud: design and performance study. *Sensors*, 22(21), 8380.

Hossain, M. D., Azam, M. S., Ali, M. J., & Sabit, H. (2020, December). Drugs rating generation and recommendation from sentiment analysis of drug reviews using machine learning. In *2020 Emerging Technology in Computing, Communication and Electronics (ETCCE)* (pp. 1-6). IEEE.

Rahman, Md Arafatur Rahman, A. Taufiq Asyhari, Ibnu Febry Kurniawan, Jahan Ali, Md Mustafizur Rahman, and Mahima Karim. "A scalable hybrid MAC strategy for traffic-differentiated IoT-enabled intra-vehicular networks." *Computer Communications* (2020).

Jahan Ali, Rahman, M. A., Bhuiyan, M. Z. A., Asyhari, A. T., & Kabir, M. N. (2020). Cyber-physical Autonomous Vehicular System (CAVS): A MAC Layer Perspective. In *Big Data Analytics for Cyber-Physical Systems* (pp. 129-152). Springer, Cham.

Kabir, M. N., Alginahi, Y. M., Ali, J., & Abdel-Raheem, E. (2019). Optimal search algorithm in a big database using interpolation-extrapolation method. *Electronics Letters*, 55(21), 1130-1133.

Muhammad Noman Kabir, Jahan Ali, Yasser Alginahi. Hocene Benseghir "A modified Secant method for Efficient Search in a Big Database", 2nd Borneo International Conference on Applied Mathematics and Engineering (BICAME), 2018. (In IEEE press).

Wei, Wang, Md Arafatur Rahman, Jahan Ali, Md Zakirul Alam Bhuiyan, Liu Yao, and Hai Tao. "Overview of Logistics Equilibrium Distribution Networks System: An Urban Perspective." In *International Conference on Security, Privacy and Anonymity in Computation, Communication and Storage*, pp. 282-293. Springer, Cham, 2018.

Jahan Ali, Md Arafatur Rahman, A. Taufiq Asyhari, Md Zakirul Alam Bhuiyan, and Muhammad Noman Kabir "Cyber-physical Autonomous Vehicular System (CAVS): A MAC Layer Perspective" (press in SpringerLink book chapter 'Leveraging Big Data Techniques for Cyber-Physical Systems'), 2018.

Rahman, Md, Jahan Ali, Muhammad Noman Kabir, and Saiful Azad. "A performance investigation on IoT enabled intra-vehicular wireless sensor networks." *International Journal of Automotive & Mechanical Engineering* 14, no. 1 (2017).

Muhammad Noman Kabir, Jahan Ali, Abdul Rahman A. Alsewari, Kamal Z. Zamli "An adaptive flower pollination algorithm for software test suite minimization." *2017 3rd International Conference on Electrical Information and Communication Technology (EICT)*, 2017.

Abbas Ali MH, Jahan Ali, Md Arafatur Rahman, and Saiful Azad. "Comparative Investigation on CSMA/CA-Based MAC Protocols for Scalable Networks." In *Computer and Communication Engineering (ICCE)*, 2016 International Conference on, pp. 428-433. IEEE, 2016.

Hameez Mohammad Mat Zin, Jahan Ali, Md Rahman, Azad Saiful, and M. Noman Kabir. "IoT Enabled Intra-Vehicular Communication for Designing A Smart Car." <http://iccinno.ump.edu.my/index.php/en/documents/pdf-files/proceeding-2016/165-253-259>.

Md Arafatur Rahman, Muhammad Noman Kabir, Jahan Ali, and Saiful Azad. "On mitigating Hop-to-Hop Congestion Problem in IoT Enabled Intra-Vehicular Communication." In *Proc. of the 4th International Conference on Software Engineering & Computer Systems (ICSECS '15)*, Kuantan, Malaysia, Aug. 19-21, 2015.

Dr. Jahan Ali is a Senior Lecturer and programme leader of Electrical Engineering and Information Technology at the International College of Auckland (ICA). His principal research interests encompass a broad range of cutting-edge technologies, including the Internet of Things (IoT), Wireless Sensor Networks (WSNs), Cloud Computing, and Machine Learning. His scholarly pursuits are characterized by a deep-seated commitment to advancing research and fostering innovation. He is particularly passionate about exploring novel concepts and pioneering advancements within these dynamic fields. His work aims to contribute to the development of intelligent systems and applications that can revolutionize industries and improve quality of life. Through his research, he seeks to address contemporary challenges and leverage technological advancements to create innovative solutions that are both impactful and transformative.

DOCTOR OF PHILOSOPHY (PHD)

AUCKLAND UNIVERSITY OF TECHNOLOGY (AUT),
AUCKLAND, NEW ZEALAND, JUNE 2024.

MASTER OF SCIENCE (MSC)

UNIVERSITY MALAYSIA PAHANG AL-SULTAN ABDULLAH
(UMPSA), PAHANG, MALAYSIA, FEBRUARY 2019.

BACHELOR OF SCIENCE (BSC)

JASHORE UNIVERSITY OF SCIENCE AND TECHNOLOGY
(JUST), JASHORE, BANGLADESH, FEBRUARY 2015.

CERTIFICATIONS:

NEW ZEALAND CERTIFICATE IN ADULT AND TERTIARY
TEACHING (LEVEL 5), 2024.

USING STANDARDS TO ASSESS CANDIDATE PERFORMANCE
(LEVEL 4), 2023.