

MD L. ALI

Associate Professor
Department of Computer Science & Mathematics
Rider University
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Research Interests Artificial Intelligence, Machine Learning, Biometrics, Cyber Security, and Data Analytics

Education

PACE UNIVERSITY New York City, NY, USA
Ph.D., Computer Science
Thesis Title: “A Hybrid Generative/Discriminative Approach to Machine Learning Problems with Application to Keystroke Biometrics”
Thesis Advisor: Charles C. Tappert

BLEKINGE INSTITUTE OF TECHNOLOGY Karlskrona, Sweden
M.S., Electrical Engineering (Major in Telecommunication Engineering)
Thesis Title: “Security Issues in Wireless Networks: Bluetooth, MANET, WiMax”
Thesis Advisor: Lennart Isaksson

BLEKINGE INSTITUTE OF TECHNOLOGY Karlskrona, Sweden
M.S., Computer Science (Major in Security Engineering)
Thesis Title: “Security Threats in Mobile Ad-Hoc Networks”
Thesis Advisor: Rune Gustavsson

INTERNATIONAL ISLAMIC UNIVERSITY CHITTAGONG Chittagong, Bangladesh
B.S., Computer Science & Engineering

Professional Experience	ASSOCIATE PROFESSOR (TENURED), COMPUTER SCIENCE Rider University, USA	Sep. 2024 – Present
	ASSISTANT PROFESSOR II, COMPUTER SCIENCE Rider University, USA	Sep. 2021 – Aug. 2024
	ASSISTANT PROFESSOR I, COMPUTER SCIENCE Rider University, USA	Sep. 2018 – Aug. 2021
	ASSISTANT PROFESSOR, COMPUTER SCIENCE Caldwell University, USA	Sep. 2016 – Aug. 2018
	ADJUNCT PROFESSOR, COMPUTER SCIENCE Rowan University, USA	2016 – 2018
	ADJUNCT ASSISTANT PROFESSOR, COMPUTER SCIENCE Pace University, USA	2016
	ADJUNCT PROFESSOR, COMPUTER SCIENCE County College of Morris, USA	2016
	GRADUATE RESEARCH ASSISTANT, COMPUTER SCIENCE Pace University, USA	2015

	LECTURER, COMPUTER SCIENCE Chittagong Veterinary and Animal Sciences University, Bangladesh	2010 – 2012
	LECTURER AND COORDINATOR, COMPUTER SCIENCE International Islamic University Chittagong, Bangladesh	2009 – 2010
Honors & Awards	Best Presenter Award - IEEE CCWC 2022 Best Paper Award - IEEE IEMTRONICS 2021 Online Course Development Grant - Rider University Best Paper Award - IEEE UEMCON 2018 Best Paper Award - IEEE UEMCON 2017 Professional Development Grant - Caldwell University Graduate Assistantship Award - Pace University Conference Travel Grant - Pace University AF-1 Scholarship - Korea (Declined the offer) Top Thesis Award - Blekinge Institute of Technology Undergraduate Academic Grant - IIUC	2022 2021 2019 2018 2017 2017 2015 2015 2012 2007 2001 – 2004
Grants	AWARDED GRANTS	
	Co-PI, NSF 25-514 Project Title: Planning: Strengthening STEM Resources and Programming for Prospective Low-Income Scholars Grant Amount: \$199,646 Grant Period: 08/01/2026 - 07/31/2028	2026
	Co-PI, NSF 22-588 Improving Undergraduate STEM Education: Computing in Undergraduate Education Project Title: Collaborative Research, CUE-T: Broadening Participation in Computing via Active Learning Strategies in Multi-Institution Online Synchronous Learning Environments Grant Amount: \$220,000 Grant Period: 06/01/2023 - 05/31/2027	2023
	SUBMITTED GRANTS (PENDING)	
	PI, NSF 23-510 Improving Undergraduate STEM Education: Directorate for STEM Education (IUSE: EDU) Project Title: Collaborative Research: AI-Ready LAs (AIR): Preparation of STEM undergraduates to facilitate learning in STEM courses through an AI-Ready near peer model	2026
	SUBMITTED GRANTS (NOT FUNDED)	
	Co-PI, NSF 25-514 NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM) Project Title: S-STEM: Strengthening the New Jersey STEM Pipeline into U.S. Critical Needs Fields	2025
	PI, NSF 21-550 NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM) Project Title: Strengthening the New Jersey STEM Pipeline: Building a Holistic and Mindful Approach for Collegiate & Career Success	2022
	SENIOR MEMBER, NSF 21-523 NSF Harnessing the Data Revolution : Data Science Corps (DSC)	2021

Program Developed	<i>Rider University</i>	2018 – Present
	BS in Computer Science - AI Track BS in Cybersecurity (program update) Computer Science Minor Cybersecurity Minor	
	<i>Caldwell University</i>	2016 – 2018
	BS in Computer Science	
Courses Developed	<i>Rider University</i>	2018 – Present
	CSC 105 Fundamentals of Computer Science CSC 360 Concept of Artificial Intelligence CSC 400 Introduction to Machine Learning CSC 410 Data Science and Big Data Analytics CSC 470 Special Topics in Artificial Intelligence	
	<i>Caldwell University</i>	2016 – 2018
	CS 420 Artificial Intelligence CS 4xx Software Engineering CS 3xx Computer Organization and Architecture CS 3xx Algorithms	
Courses Taught	<i>Rider University</i>	2018 – Present
	CSC 105 Fundamentals of Computer Science CSC 110 Computer Science I (In-person & Online) CSC 120 Computer Science II (In-person & Online) CSC 130 Data Structures and Algorithms(In-person & Online) CSC 220 Computer Organization and Architecture CSC 230 Probability for Computer Science CSC 250 Software Security Engineering CSC 340 Cyber Security Essentials(In-person & Online) CSC 350 Analysis of Algorithms CSC 360 Concept of Artificial Intelligence CSC 410 Data Science and Big Data Analytics CSC 490 Independent Research CYB 105 Introduction to Cybersecurity (In-person & Online) CYB 130 IT Fundamentals	
	<i>Caldwell University</i>	2016 – 2018
	CS 195 Computer Programming I CS 196 Computer Programming II CS 216 Data Structures and Algorithms CS 320 Networking and Communications CS 327 Internet and Enterprise Security CS 240 Windows Programming CS 219 Business Spreadsheet Applications FS 189 Freshman Seminar CS 420 Artificial Intelligence	
	<i>Rowan University</i>	2016 – 2018
	CS 07595 Data Warehousing (Graduate Course)	

CS 04103 Computer Science & Programming
CS 01104 Introduction to Scientific Programming

Pace University

2016

CIT 211 Introduction to Computer Systems

County College of Morris

2016

CMP 128 computer science I (In-person & Hybrid)

Mentoring Experience

INDEPENDENT RESEARCH ADVISOR, RIDER UNIVERSITY
Supervised undergraduate students in independent research projects.

2018 – Present

INDEPENDENT RESEARCH ADVISOR, CALDWELL UNIVERSITY
Supervised undergraduate students in independent research projects.

2016 – 2018

PROJECT ADVISOR, ROWAN UNIVERSITY
Supervised graduate students in research projects.

2016 – 2018

Selected Presentations & Invited Talks

FROM BASELINE TO ADVANCED: SCALABLE, TECHNICAL AI CURRICULUM
FOR ALL MAJORS
NJ AI Hub Statewide Higher Education AI Showcase,
Rutgers University New Brunswick, New Jersey, USA

June 2026

USING DATA TO SECURE SYSTEMS WITH MACHINE LEARNING FOR
BIOMETRICS AND NETWORK DEFENSE
Ramapo College of New Jersey (RCNJ), Mahwah, New Jersey, USA

March 2026

SINGLE CHANNEL EEG BASED SLEEP STAGE CLASSIFICATION USING
MACHINE LEARNING ALGORITHMS
The IVSP 2026 International Conference, Tokyo, Japan

March 2026

THE RISE OF ARTIFICIAL INTELLIGENCE: INDUSTRY INSIGHTS AND
APPLICATIONS IN SECURITY INFORMATION AND EVENT MANAGEMENT (SIEM)
IEEE UEMCON 2024 Conference, Yorktown Heights, NY, USA

October 2024

THE APPLICATION OF LAYERED AUTHENTICATION IN CYBERSECURITY
IEEE ICCIMS 2024 Conference, University of Quebec, Canada

July 2024

ANALYSIS OF VARIOUS MACHINE LEARNING MODELS IN DETECTING CREDIT
CARD FRAUD ACTIVITIES
ACM CVC1 2024 Conference (Hybrid), Bangkok, Thailand

January 2024

ANALYSIS OF HOUSING MARKET TO PREDICT HOME PRICE
ICECCME 2023 Conference (Hybrid), Tenerife, Spain

July 2023

BIOMETRICS: THE FUTURE OF SECURITY
BHP 307 Guest Speech, Rider University, NJ, USA

April 2023

ACCESS CONTROL, BIOMETRICS, AND THE FUTURE
ACM IVSP 2023 Conference (Hybrid), Singapore

March 2023

NETWORK PACKET SNIFFING AND DEFENSE
IEEE CCWC 2023 Virtual Conference, Las Vegas, NV, USA

March 2023

ACCESS CONTROL, BIOMETRICS, AND THE FUTURE St. John's University, Staten Island, NY, USA	March 2022
THE IMPACT OF PURCHASING CYBER INSURANCE ON THE ENHANCEMENT OF OPERATIONAL CYBER RISK MITIGATION OF U.S. BANKS- A CASE STUDY IEEE CCWC 2022 Virtual Conference, Las Vegas, NV, USA	January 2022
APPLICATIONS OF MACHINE LEARNING TOOLS IN GENOMICS: A REVIEW Smart Computing and Communication Conference, Birmingham, UK	October 2019
POHMM/SVM: A HYBRID APPROACH FOR KEYSTROKE BIOMETRIC USER AUTHENTICATION IEEE RCAR Conference, Kandima, Maldives	August 2018
COMPUTER SECURITY USING KEYSTROKE BIOMETRICS BRAC University, Dhaka, Bangladesh	July 2018
KEYSTROKE BIOMETRIC STUDIES WITH HIDDEN MARKOV MODEL AND ITS EXTENSION ON SHORT FIXED-TEXT INPUT IEEE UEMCON Conference, Columbia University, NY	October 2017
IMPACT OF CYBER-ATTACKS ON CRITICAL INFRASTRUCTURE IEEE HPSC Conference, New York City, NY	April 2016
AUTHENTICATION AND IDENTIFICATION METHODS USED IN KEYSTROKE BIOMETRIC SYSTEMS IEEE BigDataSecurity Symposium, New York City, NY	August 2015
HIDDEN MARKOV MODELS IN KEYSTROKE DYNAMICS Research Day, Pace University, NY	April 2015

Professional Service

Guest Editor

Advances in Machine Learning and Big Data Analytics. A special issue of Applied Sciences (ISSN 2076-3417).	2024 – 2025
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Journals Reviews (Partial)

ACM Transactions on Multimedia Computing Communications and Applications	2022 – 2025
MDPI-Journal of Imaging, Sensors, Electronics, Sustainability, Applied Sciences, and Symmetry	2020 – 2025
Hindawi - Mobile Information System	2021
Indonesian Journal of Electrical Engineering and Computer Science	2021
Journal of Information Systems and Telecommunication (JIST)	2020
WILEY - International Journal of Communication Systems (IJCS)	2020
IEEE Internet of Things Journal (IEEE IoT)	2019 – 2022
Journal of King Saud University - Computer and Information Sciences	2020
IEEE Access	2019 – 2020
IEEE Network Magazine	2019 – 2020
IEEE Transactions on Industrial Informatics (IEEE TII)	2018 – 2019
Journal of Signal Processing System (JSPS)	2017 – 2018

Conference Proceedings Reviews (Partial)

The International Conference on Image, Video and Signal Processing (IVSP)	2023 – present
The International Conference on Computer Vision and Computational Intelligence(CVCI)	2023 – present
ACM International Symposium on Blockchain and Secure Critical Infrastructure	2019 – present
IEEE International IOT, Electronics and Mechatronics Conference	2020 – present
IEEE Annual Computing and Communication Workshop and Conference	2020 – present
IEEE World AI IoT Congress (IEEE AIIoT)	2021 – present
Int. Conference on Computing, Multimedia, and Information Technology	2023 – present
Annual Information Technology, Electronics and Mobile Comms Conference	2020 – present
Annual Ubiquitous Computing, Electronics and Mobile Comms Conference	2017 – present
Int. Conference on Electrical and Electronic Engineering Intelligent System	2022 – 2023
The 4th 2023 International Conference on Information Technology, Advanced Mechanical and Electrical Engineering (ICITAMEE 2023)	2023
ACM 5th Artificial Intelligence and Cloud Computing Conference	2022
International Conference On Information System and information Technology	2022
International Conference on Big-data Service and Intelligent Computation	2022
IEEE Information Technology International Seminar (ITIS)	2021
International Conference on Sustainable Engineering and Creative Computing	2021
IEEE International Conference on Intelligent Data and Security (IDS)	2016 – 2020
IEEE International Conference on High Performance and Smart Computing	2016 – 2020
International Conference on Enhanced Research and Industrial Application	2020
IEEE URUCON Conference	2020

Conference General Chair/Program Chair

The 2026 5th International Conference on Information Economy, Data Modeling and Cloud Computing (ICIDC 2026)	2026
The 2026 3rd International Conference on Economic Data Analytics and Artificial Intelligence (EDAI 2026)	2026
The 14th International Conference on Information Management and Engineering (ICIME 2026), Yokohama, Japan August 5-7, 2026	2026

Conference Session Chair(Partial)

2026 8th International Conference on Image, Video and Signal Processing (IVSP 2026)	2026
The 5th International Conference on Computer Vision and Computational Intelligence (CVCII 2024)	2024
The 3rd International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME 2023)	2023
Annual Computing and Communication Workshop and Conference (CCWC)	2021 – 2023
International IOT, Electronics, and Mechatronics Conference	2020 – 2022
IEEE World AI IoT Congress (IEEE AIIoT)	2022
ACM Artificial Intelligence and Cloud Computing Conference (AICCC 2022)	2022
Annual Ubiquitous Computing, Electronics and Mobile Communication Conference	2020 – 2021

Conference Publicity Chair

2026 International Conference on Economic Management and Big Data Applications	2026
IEEE International Conference on Data Mining (IEEE ICDM)	2023
IEEE International Conference on High Performance and Smart Computing (IEEE HPSC 2023)	2023
IEEE International Conference on Big Data Security on Cloud	

(IEEE BigDataSecurity 2023)	2023
IEEE International Conference on Intelligent Data and Security (IEEE IDS 2023)	2023

Conference Technical Committee Member(Partial)

2026 International Conference on Artificial Intelligence, Big Data and Cloud Computing (AIBDCC 2026) Chengdu, China, from October 30 to 31, 2026	2026 - Present
The Int. Conference on Computer Vision and Computational Intelligence	2023 - Present
The Int. Conference on Image, Video and Signal Processing (IVSP)	2023 - Present
Int. Conference Big-data Service and Intelligent Computation	2023 - Present
International Workshop on Artificial Intelligent and Image Processing	2023 - Present
IEEE International IOT, Electronics and Mechatronics Conference	2020 – Present
ACM International Symposium on Blockchain and Secure Critical Infrastructure	2019 – Present
IEEE World AI IoT Congress (IEEE AIIoT)	2021 – Present
The International Conference on Big Data Modeling and Optimization	2023 – Present
International Conference on Electronic and Electrical Engineering and Intelligent System (ICE3IS)	2023
The Wireless and Optical Communication Conference (WOCC)	2021 – 2023
The 5th Artificial Intelligence and Cloud Computing Conference	2022 – 2023
Annual Information Technology, Electronics and Mobile Communication Conference	2020 – 2023
Annual Ubiquitous Computing, Electronics and Mobile Communication Conference	2020 – 2023
International Conference on Big-data Service and Intelligent Computation	2022
IEEE International Symposium on Technology and Society	2019 – 2021

University & Department Service	Chair, Department of Computer Science and Physics, Rider University	2025 – 2026
	Member, President's Faculty Advisory Council	2024 – Present
	Member, Honors Council for Award, Rider University	2023 – 2025
	Member, Academic Affairs I.T. Committee, Rider University	2023
	Member, Faculty Development Committee, Rider University	2023 – 2025
	Member, Faculty Advisor, ACM Club Rider Chapter, Rider University	2022 – Present
	Member, Enrollment Management Tripartite Committee, Rider University	2022 – Present
	Member, Asian American Alliance, Rider University	2022 – Present
	Member, AAUP Junior Faculty Committee, Rider University	2021 – 2024
	Organizer, NASA Virtual Internship Presentation, Rider University	2018 – 2024
	Member, Healthcare and Technology New Programs Task Force, Rider University	2023
	Member, Chief Information Officer Hiring Interview, Rider University	2023
	Member, Honors Council, Rider University	2023
	Member, faculty & staff working group, Rider University	2022
	Member, Faculty Hiring Search Committee, Rider University	2018 – 2021
	Member, International Education Committee (IEC), Rider University	2019 – 2020
	Member, AAUP Faculty Development Committee Study Group, Rider University	2019 – 2020
	Member, Faculty Development Committee, Caldwell University	2016 – 2018
	Member, Online Education Committee, Caldwell University	2016 – 2017
	Member, ACBSP work group Committee, Caldwell University	2016 – 2018
	Member, Prior Learning Assessment, Caldwell University	2016 – 2017

Community Service	Judge, Undergraduate Research Symposium, NJ Independent Colleges and Universities of New Jersey	2023 – Present
	Judge, Mercer Science & Engineering Fair	2022 – Present
	Mentor, American Statistical Association DataFest, Rider University	2023
	Member, IEEE Senior Member Review Panel	2023 – Present

Professional Affiliations	Senior Member, Institute of Electrical and Electronics Engineers (IEEE) Senior Member, IEEE Young Professionals Senior Member, IEEE Biometrics Council Senior Member, IEEE Systems Council Senior Member, IEEE Council on Electronic Design Automation Member, Association for Computing Machinery (ACM) Member, Institution of Engineers, Bangladesh (IEB)
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References

Book /
Book Chapter/
Refereed
Journal
Publications

- A1 REAL-TIME RANSOMWARE DETECTION USING REINFORCEMENT LEARNING AGENTS
Thakur, K. , **Ali, M. L.**, Schmeelk, S., Debello, J and Rahman, M., 2026. *Information*, vol. 17, no. 2, 194, 2026. DOI: <https://doi.org/10.3390/info17020194>
- A2 DEEP LEARNING VS. MACHINE LEARNING FOR INTRUSION DETECTION IN COMPUTER NETWORKS: A COMPARATIVE STUDY
Ali, M. L., Thakur, K. , Schmeelk, S., Debello, J and Dragos, D., 2025. *Applied Sciences*, vol. 15, no. 4, 1903, 2025. DOI: <https://doi.org/10.3390/app15041903>
- A3 OBESITY RISK PREDICTION USING MACHINE LEARNING BY COMBINING LIFESTYLE FACTORS AND SOCIAL MEDIA BEHAVIOR
Thakur, K., Schmeelk, S., **Ali, M. L.**, Debello, J., and Dragos, D., 2025. *Lecture Notes in Networks and Systems*, Volume 144, Springer Singapore. Online ISBN: 978-981-96-6928-8. DOI: doi.org/10.1007/978-981-96-6929-5_8
- A4 AN ANALYSIS OF DISENGAGEMENTS IN AUTONOMOUS VEHICLES
Ali, M. L., Castro, N. , and Varchetto, M., 2025. *International Journal of Modeling and Optimization*, vol. 15, no. 1, pp. 1-8, 2025. DOI: 10.7763/IJMO.2025.V15.865.
Online Access: <https://www.ijmo.org/show-136-1107-1.html>
- A5 DEMYSTIFYING THE RSA ALGORITHM: AN INTUITIVE INTRODUCTION FOR NOVICES IN CYBERSECURITY
Luo, Z. J., Liu, R., Mehta, A., and **Ali, M. L.**, 2024. *The Journal of Computing Sciences in Colleges* , 40(3): 85-99.
- A6 A SYSTEMATIC REVIEW ON DEEP-LEARNING-BASED PHISHING EMAIL DETECTION
Thakur, K., **Ali, M. L.**, Obaidat, M. A., and Kamruzzaman, A., 2023. *Electronics*, 12(21): 4545. DOI: <https://doi.org/10.3390/electronics12214545>
- A7 A HYBRID METHOD FOR KEYSTROKE BIOMETRIC USER IDENTIFICATION
Ali, M. L., Thakur, K., and Obaidat, M. A., 2022. *Electronics*, 11(17): 2782. DOI: <https://doi.org/10.3390/electronics11172782>
- A8 ANALYSIS OF FAKE NEWS DETECTION USING MACHINE LEARNING AND ACCURACY MEASURES
Narayanan, S., Goldstein, A., **Ali, M. L.**, and Narasareddygar, M. R., 2022. *International Journal of Management and Applied Science (IJMAS)*, 8(8), pp. 11-18.
https://www.iraj.in/journal/journal_file/journal_pdf/14-855-167032217911-18.pdf
- A9 APPLICATIONS OF MACHINE LEARNING TOOLS IN GENOMICS: A REVIEW
Fracasso, J. L. and **Ali, M. L.**, 2019. In: Qiu, M. (eds) Smart Computing and Communication. SmartCom 2019. *Lecture Notes in Computer Science*, Volume 11910, Springer, Cham. Online ISBN: 978-3-030-34139-8.
DOI: https://doi.org/10.1007/978-3-030-34139-8_33

- A10 CLOUD COMPUTING SECURITY THREATS AND SOLUTIONS
Henry, S. D. and **Ali, M. L.**, 2017. *I-Manager's Journal on Cloud Computing (JCC)*, 4(2), pp. 1-8. DOI: <https://doi.org/10.26634/jcc.4.2.14249>
- A11 CLOUD COMPUTING AND ITS SECURITY ISSUES
Thakur, K., Tao, L., Wang, T., and **Ali, M. L.**, 2017. *Application and Theory of Computer Technology*, 2(1), pp. 1-10.
- A12 KEYSTROKE BIOMETRIC SYSTEMS FOR USER AUTHENTICATION¹
Ali, M. L., Tappert, C. C., Qiu, M., and Monaco, J. V., 2016. *Journal of Signal Processing Systems (JSPS)*, Springer, 88, pp. 175-190.
ISSN Print: 1939-8018. DOI: <https://doi.org/10.1007/s11265-016-1114-9>
- A13 USER AUTHENTICATION AND IDENTIFICATION USING NEURAL NETWORK
Ali, M. L., Thakur, K., and Tappert, C. C., 2015. *I-Managers Journal On Pattern Recognition(JPR)*, 2(2), pp. 28-39.
ISSN Print: 2349-7912. DOI : <https://doi.org/10.26634/jpr.2.2.3567>
- A14 DEVELOPING VIRTUAL RESIDENTIAL AREA USING VIRTUAL REALITY MODELING LANGUAGE AND VIRTUAL REALITY TOOLS
Ali, M. L., 2015. *International Journal of Engineering Research & Technology (IJERT)*, 4(4). ISSN (Online) : 2278-0181. DOI: <http://dx.doi.org/10.17577/IJERTV4IS040778>
- A15 SECURITY ISSUES IN WIRELESS TECHNOLOGIES: BLUETOOTH, MANET AND WIMAX
Biswas, K., **Ali, M. L.**, and Sultana, R., 2011. *VDM Verlag, Dr. Muller Aktiengesellschaft & Co. KG*. ISBN-10: 9783639374988. ISBN-13: 978-3639374988

Refereed Conference Publications

- B1 (ACCEPTED) LEARNING ASSISTANTS IN AN INTRODUCTORY CYBERSECURITY COURSE: A MIXED-METHODS INVESTIGATION
Ramasamy, V., **Ali, M. L.**, Narasareddygar, M., and Clarke, P. In *2027 The Technical Symposium on Computer Science Education (SIGCSE TS 2027)*, Sacramento, California, February 17 - February 20, 2027.
DOI: ACM conference proceedings, Appearing soon..
- B2 (ACCEPTED) TUNABLE MAZE COMPLEXITY VIA GROWING TREES
Sethi, D., Mittal, N., Mirchandani, D., and **Ali, M. L.**. In *2026 IEEE URUCON Conference*, Montevideo, Uruguay, November 16 - 18, 2026.
DOI: IEEE Xplore, Appearing soon..
- B3 (ACCEPTED AND PRESENTED) MODEL-BASED SELF-SECURING ADAPTIVE CONTROL FRAMEWORK FOR CYBER-PHYSICAL SYSTEMS
Thakur, K., **Ali, M. L.**, Krantz, M., and Fisher, S. In *2026 14th International Conference on Information Management and Engineering (ICIME 2026)*, Yokohama, Japan, August 5-7, 2026.
DOI: Springer -CCIS Conference Proceedings, Appearing soon..
- B4 (ACCEPTED AND PRESENTED) LATENCY-OPTIMIZED POST-QUANTUM LATTICE CRYPTOGRAPHY FOR SECURE COLLABORATIVE MULTI-PARTY AI
Thakur, K., **Ali, M. L.**, Schmeelk, S., Debello, J., and Dragos, D. In *2026 8th International Conference on Big Data Engineering (BDE 2026)*, Yokohama, Japan, August 5-7, 2026.
DOI: ACM conference proceedings (ISBN:979-8-4007-2525-8) Appearing soon..
- B5 (ACCEPTED AND PRESENTED) CYBER DEFENSE FRAMEWORK FOR THREAT DETECTION IN PEACE AND STABILITY OPERATIONS
Fisher, S., Thakur, K., Krantz, M., and **Ali, M. L.**. In *2026 14th International Conference on Information Management and Engineering (ICIME 2026)*, Yokohama, Japan, August 5-7, 2026.
DOI: Springer -CCIS Conference Proceedings, Appearing soon..

¹This paper has over 160 refereed citations (Access date- 05/01/2026)

- B6 SINGLE CHANNEL EEG BASED SLEEP STAGE CLASSIFICATION USING MACHINE LEARNING ALGORITHMS
Ali, M. L., Mukundhan, S., Perrott, J., Carroll, L., and Thakur, K. In *2026 8th International Conference on Image, Video and Signal Processing (IVSP 2026)*, Proc. SPIE 14268, Eighth International Conference on Image, Video, and Signal Processing (IVSP 2026), 1426815 (6 Jul 2026).
 DOI: <https://doi.org/10.1117/12.3116402>
- B7 (ACCEPTED AND PRESENTED) AN AI-DRIVEN FRAMEWORK FOR ADAPTIVE CYBER DEFENSE
 Thakur, K. and **Ali, M. L.**. In *International Conference on the AI Revolution: Research, Ethics, and Society (AIR-RES 2026)*, Las Vegas, USA, April 13-15, 2026.
 DOI: Appearing soon..
- B8 INVESTIGATING STUDENT BELONGING, ENGAGEMENT, AND SELF-EFFICACY IN ONLINE AND IN-PERSON LEARNING ENVIRONMENTS
 Ramasamy, V., Kornreich-Leshem, H., Reid, M. Tuttle, S., Solis, T., **Ali, M. L.**, Jones, E., and Clarke, P. In *In Proceedings of the 57th ACM Technical Symposium on Computer Science Education V. 1 (SIGCSE TS 2026)*, Pages 901 - 907, 2026, St. Louis, Missouri.
 DOI: <https://doi.org/10.1145/3770762.3772626>
- B9 A PRIVACY-PRESERVING AND INTERPRETABLE FRAMEWORK FOR FINANCIAL FRAUD DETECTION USING AI
 Thakur, K., Barker, H., and **Ali, M. L.**. In *BDSIC '25: Proceedings of the 2025 7th International Conference on Big-data Service and Intelligent Computation*, National Institute of Development Administration, Bangkok, Thailand, October 29 - 31, 2025, Pages 171 - 179.
 DOI: <https://doi.org/10.1145/3778265.3778279>
- B10 ENHANCING COMPUTER SCIENCE EDUCATION USING LEARNING ASSISTANTS: A GAMIFICATION APPROACH
 Narasareddygar, M. R., Ramasamy, V., Cilone, D., and **Ali, M. L.**. In *ACMSE 2025: Proceedings of the 2025 ACM Southeast Conference*, Cape Girardeau, MO, USA, April 24-26, 2025, Pages 171 - 179.
<https://doi.org/10.1145/3696673.3723075>
- B11 AI EDU: NAVIGATING PRIVACY AND CONFIDENTIALITY
 Kutub, T., Schmeelk, S., **Ali, M. L.**, Kamruzzaman, A., Debello, J., and Dragos, D. In *2024 IEEE 15th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)*, Berkeley, CA, USA, 24-26 October 2024, Pages 111-115.
 DOI: 10.1109/IEMCON62851.2024.11093509
- B12 SAFEGUARDING NETWORK: MECHANISMS AND PREVENTION STRATEGIES OF DNS HI-JACKING
 Kutub, T., Debello, J., Kamruzzaman, A. , and **Ali, M. L.**. In *2024 IEEE 15th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)*, Berkeley, CA, USA, 24-26 October 2024, Pages 124-128.
 DOI: 10.1109/IEMCON62851.2024.11093501
- B13 PREDICTIVE MODELING FOR PATIENT HOSPITALIZATION: ENHANCING HEALTHCARE OUTCOMES
 Merz, C., Galioto, A., and **Ali, M. L.**. In *IEEE URUCON 2024*, Montevideo, Uruguay, 18-20 November 2024, Pages 1-5.
 DOI: 10.1109/URUCON63440.2024.10850470
- B14 THE RISE OF ARTIFICIAL INTELLIGENCE: INDUSTRY INSIGHTS AND APPLICATIONS IN SECURITY INFORMATION AND EVENT MANAGEMENT (SIEM)
Ali, M. L., Kutub, T., Barker, H., and Chan, M. In *2024 IEEE 15th Annual Ubiquitous Computing, Electronics and Mobile Communication Conference (UEMCON)*, Yorktown Heights, NY, USA, 17-19 October 2024, Pages 0477-0482.
 DOI: 10.1109/UEMCON62879.2024.10754705

- B15 THE APPLICATION OF LAYERED AUTHENTICATION IN CYBERSECURITY
Ali, M. L., Kutub, T., and Obaidat, M. A. In *2024 International Conference on Computing, Internet of Things and Microwave Systems (ICCIMS)*, Gatineau, QC, Canada, 29-31 July 2024, Pages 1-5.
 DOI: 10.1109/ICCIMS61672.2024.10690347
- B16 HUMAN ERROR IN CYBERSECURITY MANAGEMENT
 Kutub, T., Barker, H., and **Ali, M. L.**, . In *2024 IEEE Technology and Engineering Management Society (TEMSCON LATAM)*, Panama, Panama, 17-19 October 2024, Pages 1-6.
 DOI: 10.1109/TEMSCONLATAM61834.2024.10717786
- B17 CYBERSECURITY THREATS USING APPLICATION PROGRAMMING INTERFACE (API)
 Kamruzzaman, A., Kutub, T., and **Ali, M. L.**. In *2024 International Conference on Computing, Internet of Things and Microwave Systems (ICCIMS)*, Gatineau, QC, Canada, 29-31 July 2024, Pages 1-6.
 DOI: 10.1109/ICCIMS61672.2024.10690413
- B18 MACHINE LEARNING ALGORITHMS FOR DIABETES DIAGNOSIS PREDICTION
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