Md L. Ali

Department of Computer Science & Physics
Rider University
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Lawrenceville, NJ 08648 USA

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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, 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	2010 – 2012
	Chittagong Veterinary and Animal Sciences University, Bangladesh	

	LECTURER AND COORDINATOR, COMPUTER SCIENCE	2009 – 2010
	International Islamic University Chittagong, Bangladesh	

Honors	Best Presenter Award - IEEE CCWC 2022	2022
& Awards	Best Paper Award - IEEE IEMTRONICS 2021	2021
	Online Course Development Grant - Rider University	2019
	Best Paper Award - IEEE UEMCON 2018	2018
	Best Paper Award - IEEE UEMCON 2017	2017
	Professional Development Grant - Caldwell University	2017
	Graduate Assistantship Award - Pace University	2015
	Conference Travel Grant - Pace University	2015
	AF-1 Scholarship - Korea (Declined the offer)	2012
	Top Thesis Award - Blekinge Institute of Technology	2007
	Undergraduate Academic Grant - IIUC	2001 – 2004

Grants

AWARDED GRANTS

Co-PI, NSF 22-588   2023
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

SUBMITTED GRANTS

PI, NSF 21-550   2022
NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM)

SENIOR MEMBER, NSF 21-523   2021
NSF Harnessing the Data Revolution : Data Science Corps (DSC)

Courses Developed

Rider University   2018 – Present
CSC 105 Fundamentals of Computer Science
CSC 360 Concept of Artificial Intelligence
CSC 400 Introduction to Machine Learning
CSC 470 Special Topics in Artificial Intelligence

Caldwell University   2016 – 2018
CS 420 Artificial Intelligence
CS 4xx Software Engineering
CS 3xx Computer Organization and Architecture
CS 3xx Algorithms

Courses Taught

Rider University   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

CSC 220 Computer Organization and Architecture
CSC 230 Probability for Computer Science
CSC 250 Software Security Engineering
CSC 340 Cyber Security Essentials
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)

Caldwell University   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

Rowan University   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	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 CVCI 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

Journals Reviews (Partial)

ACM Transactions on Multimedia Computing Communications and Applications	2022 – 2024
MDPI-Journal of Imaging, Sensors, Electronics, Sustainability, Applied Sciences, and Symmetry	2020 – 2024
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)

ACM International Symposium on Blockchain and Secure Critical Infrastructure	2019 – 2024
IEEE International IOT, Electronics and Mechatronics Conference (IEMTRONICS)	2020 – 2024
IEEE Annual Computing and Communication Workshop and Conference (CCWC)	2020 – 2024
IEEE World AI IoT Congress (IEEE AIIoT)	2021 – 2024
The 4th 2023 International Conference on Information Technology, Advanced Mechanical and Electrical Engineering (ICITAMEE 2023)	2023
International Conference on Computing, Multimedia, and Information Technology	2023
Annual Information Technology, Electronics and Mobile Communication Conference	2020 – 2023
Annual Ubiquitous Computing, Electronics and Mobile Communication Conference	2017 – 2023
International Conference on Electrical and Electronic Engineering Intelligent System	2022 – 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 Session Chair(Partial)

The 5th International Conference on Computer Vision and Computational Intelligence (CVCI 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

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)

The International Conference on Computer Vision and Computational Intelligence (CVCI)	2023 - 2024
The International Conference on Image, Video and Signal Processing (IVSP)	2023 - 2024
International Workshop on Artificial Intelligent and Image Processing	2023 - 2024
IEEE International IOT, Electronics and Mechatronics Conference	2020 – 2024
ACM International Symposium on Blockchain and Secure Critical Infrastructure	2019 – 2024
IEEE World AI IoT Congress (IEEE AIIoT)	2021 – 2024
The 2nd International Conference on Big Data Modeling and Optimization (BDMO 2023)	2023
International Conference on Electronic and Electrical Engineering and Intelligent System (ICE3IS)	2023
The Wireless and Optical Communication Conference (WOCC)	2021 – 2023
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	Member, President's Faculty Advisory Council	2024 – Present
	Member, Honors Council for Award, Rider University	2023 – Present
	Member, Academic Affairs I.T. Committee, Rider University	2023 – Present
	Member, Faculty Development Committee, Rider University	2023 – Present
	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)

Book / Book Chapter

A2 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

A3 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 Journal Publications

B13 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

B12 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

B11 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*

B10 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

B9 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

B8 ANALYSIS OF FAKE NEWS DETECTION USING MACHINE LEARNING AND ACCURACY MEASURES
Narayanan, S., Goldstein, A., **Ali, M. L.**, and Narasareddygari, 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

B7 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

B6 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.

B5 KEYSTROKE BIOMETRIC SYSTEMS FOR USER AUTHENTICATION[1]
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

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[1]This paper has over 150 refereed citations (Access date- 02/26/2025)..

B4 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

B3 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

Refereed Conference Publications

C56 ENHANCING COMPUTER SCIENCE EDUCATION USING LEARNING ASSISTANTS: A GAMIFICATION APPROACH
NARASAREDDYGARI, 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 2426, 2025, PAGES 171 - 179.
HTTPS://DOI.ORG/10.1145/3696673.3723075

C55 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.. IN , 10TH INTERNATIONAL CONGRESS ON INFORMATION AND COMMUNICATION TECHNOLOGY (ICICT 2025), FEBRUARY 18 - 21, 2025, AMERICA SQUARE CONFERENCE CENTRE, LONDON, UNITED KINGDOM.
HTTPS:

C54 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

C53 SAFEGUARDING NETWORK: MECHANISMS AND PREVENTION STRATEGIES OF DNS HIJACKING
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

C52 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

C51 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

C50 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

C49 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

C48 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

C47 MACHINE LEARNING ALGORITHMS FOR DIABETES DIAGNOSIS PREDICTION
ZAMBRANA, A., FANEK, L., CARRERA, P. S., **Ali, M. L.**, AND NARASAREDDYGARI, M. R. IN *IVSP '24: Proceedings of the 2024 6th International Conference on Image, Video and Signal Processing (IVSP 2024)*, KAWASAKI, JAPAN, MARCH 2024, PAGES 192199.
HTTPS://DOI.ORG/10.1145/3655755.3655781

C46 ANALYSIS OF VARIOUS MACHINE LEARNING MODELS IN DETECTING CREDIT CARD FRAUD ACTIVITIES
Ali, M. L., AMPOJWALA, A.R., SUDUGU, D.R., MAROUSIS, J., GUERRIER, T., AND NARASAREDDYGARI, M. R. IN *Proceedings of the 2024 5th International Conference Computer Vision and Computational Intelligence (CVCI 2024)*, BANGKOK, THAILAND, JANUARY 29-21, 2024.
HTTPS://DOI.ORG/10.1117/12.3024128

C45 FRUITS DETECTIONS USING SINGLE SHOT MULTIBOX DETECTOR
Ali, M. L., KELLER, C., AND HUANG, M. IN *2023 5th ACM International Symposium on Blockchain and Secure Critical Infrastructure (BSCI 23)*, JULY 10 – 14, 2023, MELBOURNE, VIC, AUSTRALIA, PP. 140-144
DOI: HTTPS://DOI.ORG/10.1145/3594556.3594619

C44 ANALYSIS OF HOUSING MARKET TO PREDICT HOME PRICE
Ali, M. L., MAGRINI, D., CANGELOSI, M., AND RIBEIRO, D. IN *2023 International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME 2023)* , TENERIFE, CANARY ISLANDS, SPAIN , JULY 19 – 21, 2023.
DOI: 10.1109/ICECCME57830.2023.10253192

C43 A COMPREHENSIVE REVIEW OF WIRELESS SECURITY PROTOCOLS AND ENCRYPTION APPLICATIONS
THAKUR, H. H., HAYAJNEH, A. A., THAKUR, K., KAMRUZZAMAN, A., AND **Ali, M. L.**, IN *2023 IEEE World AI IoT Congress (AIIoT)*, SEATTLE, WA, USA, JUNE 7 – 10, 2023, PP. 0373-0379.
DOI: 10.1109/AIIoT58121.2023.10174571

C42 MACHINE LEARNING MODELS FOR HISTOPATHOLOGICAL BREAST CANCER IMAGE CLASSIFICATION
HAINES, S., EATON, E., AND **Ali, M. L.**, IN *2023 IEEE World AI IoT Congress (AIIoT)*, SEATTLE, WA, USA, JUNE 7 – 10, 2023, PP. 0036-0041.
DOI: 10.1109/AIIoT58121.2023.10174304

C41 ACCESS CONTROL, BIOMETRICS, AND THE FUTURE
Ali, M. L., SCHMEELK, S., AND QIU, M. IN *Proceedings of the 2023 5th International Conference on Image, Video and Signal Processing (IVSP 2023)*, SINGAPORE, SINGAPORE, 2023, PP. 10-17.
DOI:HTTPS://DOI.ORG/10.1145/3591156.3591158

C40 SOCIAL ENGINEERING INCIDENTS AND PREVENTIONS
KAMRUZZAMAN, THAKUR, K., ISMAT, S., **Ali, M. L.**, HUANG, K., AND THAKUR, H. N. IN *2023 IEEE 13th Annual Computing and Communication Workshop and Conference*

(CCWC), Las Vegas, NV, USA, 2023, pp. 0499-0503.
DOI: 10.1109/CCWC57344.2023.10099202

C39 Network Packet Sniffing and Defense
Ali, M. L., Ismat, S., Thakur, K., Kamruzzaman, Lue, Z., and Thakur, H. N.,
In *2023 IEEE 13th Annual Computing and Communication Workshop and Conference
(CCWC)*, Las Vegas, NV, USA, 2023, pp. 0499-0503.
DOI: 10.1109/CCWC57344.2023.10099148

C38 An Evaluation of IoT DDoS Cryptojacking Malware and Mirai Botnet
Borys, A., Kamruzzaman, A., Thakur, H. H., Brickley, J. C., **Ali, M. L.**, and
Thakur, K., In *2022 IEEE World AI IoT Congress (AIIoT)*, Seattle, WA, USA,
2022, pp. 725-729.
DOI: 10.1109/AIIoT54504.2022.9817163

C37 A Machine Learning Approach for the Early Detection of Dementia
Broman, S., OHara, E., and **Ali, M. L.**, In *2022 IEEE International IOT, Electronics
and Mechatronics Conference (IEMTRONICS)*, Toronto, ON, Canada, 2022, pp. 1-
6.
DOI: 10.1109/IEMTRONICS55184.2022.9795717

C36 The Impact of Purchasing Cyber Insurance on the Enhancement of Operational Cyber Risk Mitigation of U.S. Banks - A Case Study
Watson, T. F., Thakur, K., and **Ali, M. L.**, In *2022 IEEE 12th Annual Computing
and Communication Workshop and Conference (CCWC)*, Las Vegas, NV, USA, 2022,
pp. 0709-0715. DOI: 10.1109/CCWC54503.2022.9720791 (*Best Presenter Award*)

C35 Top Reported Data Security Risks in the Age of COVID-19
Schmeelk, S., Thakur, K., **Ali, M. L.**, Dragos, D. M., Al-Hayajneh, A. Pramana, B. R., In *2021 IEEE 12th Annual Ubiquitous Computing, Electronics & Mobile
Communication Conference (UEMCON)*, New York, NY, USA, 2021, pp. 0204-0208.
DOI: 10.1109/UEMCON53757.2021.9666573

C34 Applications of Cryptography in Database: A Review
Xu, H., Thakur, K., Kamruzzaman, A. S., and **Ali, M. L.**, In *2021 IEEE International IOT, Electronics and Mechatronics Conference (IEMTRONICS)*, Toronto, ON,
Canada, 2021, pp. 1-6. DOI: 10.1109/IEMTRONICS52119.2021.9422663 (*Best
Paper Award*)

C33 Multi-Agent Based Distributed Dynamic State Estimation Algorithm for
Smart Grid Integrating Intermittent Electric Vehicles
Rana, M. M., Abdelhadi, A., **Ali, M. L.**, and Daowud, A., In *2021 IEEE International Systems Conference (SysCon)*, Vancouver, BC, Canada, 2021, pp. 1-5.
DOI: 10.1109/SysCon48628.2021.9478342

C32 Creating and Using Secure Software
Asadoorian, A., Alberto, M., and **Ali, M. L.**, In *2020 11th IEEE Annual Ubiquitous
Computing, Electronics & Mobile Communication Conference (UEMCON)*, New York,
NY, USA, 2020, pp. 0786-0792.
DOI: 0.1109/UEMCON51285.2020.9298046

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