

Dr. Muhammad Firoz Mridha

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ResearchGate: <https://www.researchgate.net/profile/M-Ph-D>



Summary

M. F. Mridha (Senior Member IEEE, Professional Member ACM) is currently working as an Associate Professor in the Department of Computer Science, American International University-Bangladesh (AIUB). He also worked as Associate Professor and Chairman in the Department of Computer Science and Engineering, Bangladesh University of Business and Technology (BUBT) from 2019 to 2022 and as a CSE department faculty member at the University of Asia Pacific and as a graduate head from 2012 to 2019. He is the founder and director of Advanced Machine Intelligence Research Lab (AMIR Lab). He received his Ph.D. in the domain of AI from Jahangirnagar University in the year 2017. For more than 15 (Fifteen) years, he has been with the master's and undergraduate students as a supervisor of their thesis work. He has **authored/edited** several books with **Springer** and published more than 200 Journal and Conference papers. His research work contributed to the reputed Journal of Scientific Reports Nature, Knowledge-Based Systems, Artificial Intelligence Review, Engineering Applications of Artificial Intelligence, IEEE Access, Sensors, Cancers, Biology and Applied Sciences etc. His research interests include Computer Vision (CV), Artificial Intelligence (AI), Machine Learning (ML), Deep Learning, and Natural Language Processing (NLP) etc. He has served as a program committee member in several international conferences/workshops. He served as an Editorial Board Member of several journals including **PLOS ONE** Journal. He has served as a reviewer of reputed journals like IEEE Transactions on Neural Networks, Artificial Intelligence Review, IEEE Access, Knowledge base System, Expert System, Bioinformatics, Springer Nature etc.

Teaching Experience (More than 18 years Active Teaching Experience)

Associate Professor: January 2022 to till Date (Full Time)

Department of Computer Science, American International University-Bangladesh (AIUB), Dhaka, Bangladesh

Responsibilities: Conducting courses, thesis and project supervision, performing research, curriculum development, student advising.

Associate Professor: June 2019 to January 2022 (Full Time)

Department of Computer Science and Engineering, Bangladesh University of Business and Technology (BUBT), Dhaka, Bangladesh

Responsibilities: Conducting courses, thesis and project supervision, performing research, curriculum development, student advising.

Assistant Professor: May 2012 to May 2019 (Full Time)

Department of Computer Science and Engineering, University of Asia Pacific, Dhaka, Bangladesh

Responsibilities: Conducting courses at undergraduate and graduate level, thesis and project supervision, performing research, curriculum development, student advising.

Assistant Professor: December 2011 to May 2012 (Full Time)

Department of Computer Science and Engineering, Stamford University, Dhaka, Bangladesh

Responsibilities: Conducting courses at undergraduate and graduate level, thesis and project supervision, performing research, curriculum development, student advising.

Senior Lecturer: December 2010 to November 2011 (Full Time)

Department of Computer Science and Engineering, Stamford University, Dhaka, Bangladesh

Responsibilities: Conducting courses at undergraduate, thesis and project supervision, performing research, curriculum development, student advising.

Lecturer: June 2007 to December 2010 (Full Time)

Department of Computer Science and Engineering, Stamford University, Dhaka, Bangladesh

Responsibilities: Conducting courses at undergraduate level, thesis and project supervision, performing research, curriculum development, student advising.

Lecturer: September/2004 to June 2007

Department of Computer Science and Engineering, MICROLAND International Institute of Computer and Electronics(IICE).

Responsibilities: Conducting courses at undergraduate, thesis and project supervision, performing research, student advising.

Administrative Responsibility:

Chairman: December 2020 to January 2022

Department of Computer Science and Engineering, Bangladesh University of Business and Technology (BUBT), Dhaka, Bangladesh

MCSE Coordinator (Head): September 2013 to April 2019

MCSE Program, Department of Computer Science and Engineering, University of Asia Pacific, Dhaka, Bangladesh

Responsibilities: Conducting classes, Curriculum development, Research Development.

Convener, CSE Admission Committee.

Examination Committee member of CSE dept. from 2013 to May 2019.

Founder & Research Director: Advanced Machine Intelligence Research Lab (AMIRL)

Web Link: <https://amirl.org/>

Education:

- | | |
|--------|---|
| Ph.D. | Computer Science & Engineering (AI, ML), 2017
Department of Computer Science & Engineering, Jahangirnagar University, Savar, Dhaka, Bangladesh. |
| M.Sc. | Computer Science & Engineering, 2010
Theory Courses completed at IICT, BUET.
Thesis, Department of CSE(UIU), Dhaka, Bangladesh. |
| B.Sc. | Computer Science and Engineering, 2004
Department of Computer Science & Engineering,
Khulna University of Engineering and Technology (KUET), Bangladesh.
CGPA=3.52 (Marks 75.4%) |
| H.S.C. | Science, Dhaka Board, 1999
Notre Dame College, Dhaka, Bangladesh.
First Division (Marks 81.4%) |
| S.S.C. | Science, Dhaka Board, 1997
Baish Rashi Shib Sundry Academy.
First Division (Marks 87%) |

Technical Advisor of International Project:

1. **Adjunct Co-Investigator** “Enhance Precision Agriculture Using Deep Learning Techniques in Computer Vision”-Knowledge-Excellence Program, Grant Number: KEP-7-611-42, King Abdulaziz University.
2. **Adjunct Co-Investigator**, “Content Based Image Retrieval System” Knowledge-Excellence Program, Grant Number: 112-611-1442, King Abdulaziz University.
3. **Adjunct Co-Investigator**, “Self-Writer: Clusterable Embedding Based Self-Supervised Writer Recognition from Unlabeled Data” Knowledge-Excellence Program, Grant Number: IFPIP 320-6111443, King Abdulaziz University.

Professional Awards/ Honours received:

1. **Instructor Excellence Award:** Advanced Level Instructor, Cisco Networking Academy, 2022.
2. **Best Paper Award:** Best Paper Award on “Improving Facial Recognition Accuracy by Applying Liveness Monitoring Technique” in IEEE International Conference on Advances in Electrical Engineering (ICAEE), Dhaka, Bangladesh, Dec. 17-19, 2015
3. **Research Grant:**
 - I. **Principal Investigator (PI),** “Development of LCDS for Lung Cancer Classification, Detection, and Segmentation” Granted AIUB internal research grant for one year (February 2024 to January 2025)
 - II. **Principal Investigator (PI),** “Speech to Text (STT), Text to Speech (TTS) & Machine Translation (MT), Grant from Reve System for one year.
 - III. **Principal Investigator (PI),** “A Writer Verification System from Human Handwriting” Granted, *BUBT Research and Innovation Centre*. For one year (August 2020 to July 2021)

Community Services at National and International Levels:

1. **Keynote Speaker:** 3rd International *Conference* on Computer, Information Technology and Intelligent Computing (CITIC 2023)
2. **Workshop participation on** “ Early Detection and Management of Dementia using Explainable Artificial Intelligence” on 5th April 2024.
3. **Training Session "Artificial Intelligence"** : AI and Society, A realistic view of AI, AI and Economics, AI and Jobs, etc. 03-Nov-2022 at Pubali Bank Limited.
4. **FST Distinguished Lecture Series(AIUB): Speaker**

Title: A self-supervised Writer Recognition System from Unlabeled Data.
Domain: Machine Intelligence
Speaker: DR. MUHAMMAD FIROZ MRIDHA
Date: 24 February 2022, **Time:** 12:30 PM, **Platform:** MS Teams
5. **Session Chair:** At the 2nd International Conference on Computing Advancement (ICCA 2022)
Session ID: D1S2T6 (Deep Learning), **Day 1, Thu 10/03/2022, 16:30 – 18:00**
6. **Session Chair:** At the 2nd International Conference on Computing Advancement (ICCA 2022)
D3S5T14 (Misc.), Day 3, Sat 12/03/2022, 09:00 – 10:30 (local time, GMT+6)
7. **Session Chair:** at 3rd ICREST'23
Track: [D2P22] Robotics, Automation & Control (IV) **Venue:** DS0707,
January 8, 2023; Time: 15:20 - 17:00
8. **Reviewer:** At the 2nd International Conference on Computing Advancement (ICCA 2022)
9. **Proceeding Editor:** At the 3rd International Conference on Computing Advancement (ICCA 2024)
10. **Session Chair:** 8th International Conference on Information and Communication Technology for Intelligent Systems (CITIS 2024), Las Vegas, USA.
11. **Session Chair:** 9th International Congress on ICT 2024, London, United Kingdom
12. **Reviewer:** 26th International Conference on Computer and Information Technology (ICCIT 2023)
13. **Session Chair:** 7th World Conference on Smart Trends in Systems, Security, and Sustainability (WorldS4 2023), 2023 in London, UK.
14. **Session Chair:** IEEE AIIoT 2023 USA, held during June 7-10, 2023
15. **Track Chair:** Imaging and Computer Vision Track of MIET 2022 held on September 23-25, 2022
16. **TPC Member:** 9th International Conference on Communication and Information Processing (ICCIP 2023), held during December 14-16, 2023, in Lingshui, Hainan, China.
17. **Publication Chair:** International Conference on Science and Contemporary Technologies (ICSCT) 2021
18. **TPC Co-chair:** International Conference on Science and Contemporary Technologies (ICSCT) 2021
19. **Track Co-Chair:** International Conference on Big Data, IoT and Machine Learning (BIM 2021)
20. **Invited Speaker:** In 1st National Workshop on Big Data and Machine Learning (BDML 2020) on December 09-10, 2020, to be held at CUET, Bangladesh.
21. **Invited Speaker:** In 2nd Symposium on Bangla Computational Linguistics at Shahjalal University of Science and Technology (SUST), Sylhet on 28th July 2018, 2018
22. **ORGANIZER** of Special Session on “Machine Learning and Natural Language Processing (MLNLP-19)” in ICCMIT ‘19 - The 5th International Conference on Communication, Management and Information Technology March 26-28, 2019, Vienna, Austria
23. Worked as Session Chair in different international Conferences.
24. Worked as TPC member in different international Conferences.
25. Organizing Member of ICCIT 2017, ACM-ICPC 2017, ACM-ICPC and NCPC 2016.

26. Chair, Invitation and Registration Committee, ICCIT 2017.
27. Chair, Invitation and Registration Committee, ACM-ICPC 2017.
28. Chair, Invitation and Registration Committee, ACM-ICPC 2016.
29. Chair, Invitation and Registration Committee, NCPC 2016.

Conferences (as a TPC Member)

- IEEE Asia-Pacific Conference on Applied Electromagnetics (APACE) 2010
- International Conference on Computer Applications and Industrial Electronics (ICCAIE) 2011
- IEEE Symposium on Wireless Technology & Applications (ISWTA) 2012
- IEEE Symposium on Wireless Technology & Applications (ISWTA) 2013
- Symposium on Industrial Electronics & Applications (ISIEA) 2013
- IEEE Student Conference on Research and Development (SCOREd) 2014
- International Conference on Signal and Image Processing Applications (ICSIPA) 2015
- IEEE Symposium on Computer Applications & Industrial Electronics (ISCAIE) 2017
- IEEE Conference on e-Learning, e-Management and e-Services (IC3e) 2017
- International Conference on Informatics, Electronics & Vision- ICIEV, 2017
- IEEE Region 10 Humanitarian Technology Conference (R10-HTC) 2017
- International Conference on Computer and Information Technology (ICCIT) 2017
- International Conference on Electronics Representation and Algorithm 2019
- International Colloquium on Sport Science, Exercise, Engineering and Technology (ICoSSEET 2020)
- Virtual Conference on Engineering and Technology 2020 (ViCET 2020)
- International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies 2020
- International Conference on Electronic Design (ICED) 2020
- Inter Journal of Computing and Digital Systems'2020
- IEEE HONET 2020, NC, USA
- ICCA 2020,2022
- ICIEV, 2015-2022

Training:

1. Computational AI and Machine Learning Course in Julia
2. e-Learning, JICA Bangladesh

List of Publications:

Edited Books:

Book (Edited) 1:

1. **Name: Data-Driven Clinical Decision-Making Using Deep Learning in Imaging**
Chapter: 1-13
ISBN: Hardcover: 978-981-97-3965-3, Softcover:978-981-97-3968-4, eBook:978-981-97-3966-0
Date of publication: 23 August 2024
Version:1

Name of publisher:  Springer
Country: Singapore
Link: [Data-Driven Clinical Decision-Making Using Deep Learning in Imaging | SpringerLink](#)

Proceeding Book (Edited) 2:

2. **Name: Deep Learning and Visual Artificial Intelligence, Proceedings of ICDLAI 2024**
Chapter: all
ISBN: Hardcover: 978-981-97-4532-6, Softcover: 978-981-97-4535-7, eBook: 978-981-97-4533-3
Date of publication: 23 September 2024
Version:1

Name of publisher:  Springer
Country: Singapore
Link: [Deep Learning and Visual Artificial Intelligence: Proceedings of ICDLAI 2024 | SpringerLink](#)

Journal Publications:

1. Md. Farhan Ishmam, Md. Sakib Hossain Shovon, **M. F. Mridha**, Nilanjan Dey,” From image to language: A critical analysis of Visual Question Answering (VQA) approaches, challenges, and opportunities”, Information Fusion, Volume 106,2024,102270,ISSN 1566-2535,https://doi.org/10.1016/j.inffus.2024.102270.(SCIE, SJR Q1, IF=18.6)
2. Md Mohsin Kabir, **M.F. Mridha**, Ashifur Rahman, Md. Abdul Hamid, Muhammad Mostafa Monowar,”Detection of COVID-19, pneumonia, and tuberculosis from radiographs using AI-driven knowledge distillation”, Heliyon, Volume 10, Issue 5,2024,e26801,ISSN 2405-8440,https://doi.org/10.1016/j.heliyon.2024.e26801. (SCIE, SJR Q1, IF=4.0)
3. Bidita Sarkar Diba, Jayonto Dutta Plabon, M.D. Mahmudur Rahman, Durjoy Mistry, Alope Kumar Saha, **M. F. Mridha**,”Explainable federated learning for privacy-preserving bangla sign language detection“,Engineering Applications of Artificial Intelligence, Volume 134, 2024, 108657, ISSN 0952-1976, https://doi.org/10.1016/j.engappai.2024.108657. (SCIE, SJR Q1, IF=8.0)
4. S. M. Nuruzzaman Nobel, S. M. Masfequie Rahman Swapno, Md. Rajibul Islam, Mejdil Safran, Sultan Alfarhood & **M. F. Mridha**, “A machine learning approach for vocal fold segmentation and disorder classification based on ensemble method”, Sci Rep 14, 14435 (2024). https://doi.org/10.1038/s41598-024-64987-5 (SCIE, SJR Q1, IF=3.8)
5. Abdullah Al Imran, Md Sakib Hossain Shovon, **M.F. Mridha**,”BaitBuster-Bangla: A comprehensive dataset for clickbait detection in Bangla with multi-feature and multi-modal analysis”,Data in Brief,Volume 53,2024,110239,ISSN 2352-3409,https://doi.org/10.1016/j.dib.2024.110239. (ESCI, SJR Q3, IF=1.2)
6. Nobel SMN, Hossain MA, Kabir MM, **Mridha MF**, Alfarhood S, Safran M (2024) SegX-Net: A novel image segmentation approach for contrail detection using deep learning. PLoS ONE 19(3): e0298160. https://doi.org/10.1371/journal.pone.0298160 (SCIE, SJR Q1, IF=2.9)
7. Jamin Rahman Jim, Md Apon Riaz Talukder, Partha Malakar, Md Mohsin Kabir, Kamruddin Nur, **M.F. Mridha**,”Recent advancements and challenges of NLP-based sentiment analysis: A state-of-the-art review”, Natural Language Processing Journal, Volume 6,2024,100059,ISSN 2949-7191,https://doi.org/10.1016/j.nlp.2024.100059.
8. Atif Ahmed Showrov, Md Tarek Aziz, Hadiur Rahman Nabil, Jamin Rahman Jim, Md Mohsin Kabir, **MF Mridha**, Nobuyoshi Asai, Jungpil Shin, "Generative Adversarial Networks (GANs) in Medical Imaging: Advancements, Applications, and Challenges," in *IEEE Access*, vol. 12, pp. 35728-35753, 2024, doi: 10.1109/ACCESS.2024.3370848. (SCIE, SJR Q1, IF=3.9)
9. Ashifur Rahman, Md Mohsin Kabir, **Muhammad Firoz Mridha**, Mohammed Alatiyyah, Haifa F Alhasson, Shuaa S Alharbi, "Arabic Speech Recognition: Advancement and Challenges," in *IEEE Access*, vol. 12, pp. 39689-39716, 2024, doi: 10.1109/ACCESS.2024.3376237 (SCIE, SJR Q1, IF=3.9)
10. Moshir Rahman Tonmoy, Abdul Fattah Rakib, Rashik Rahman, Md Akhtaruzzaman Adnan, **Muhammad Firoz Mridha**, Jie Huang, Jungpil Shin,"A Lightweight Visual Font Style Recognition with Quantized Convolutional Autoencoder," in *IEEE Open Journal of the Computer Society*, vol. 5, pp. 120-130, 2024, doi: 10.1109/OJCS.2024.3378709. (SCIE, SJR Q1, IF=5.7)
11. Md Mubtasim Fuad, A Faiyaz, Noor Mairukh Khan Arnob, **MF Mridha**, Alope Kumar Saha, Zeyar Aung,"Okkhor-Diffusion: Class Guided Generation of Bangla Isolated Handwritten Characters Using

- Denoising Diffusion Probabilistic Model (DDPM)," in *IEEE Access*, vol. 12, pp. 37521-37539, 2024, doi: 10.1109/ACCESS.2024.3370674 (**SCIE, SJR Q1, IF=3.9**)
12. Zinniya Taffannum Pritee, Mehedi Hasan Anik, Saida Binta Alam, Jamin Rahman Jim, Md Mohsin Kabir, **M.F. Mridha**,"Machine learning and deep learning for user authentication and authorization in cybersecurity: A state-of-the-art review",*Computers & Security*, Volume 140,2024,103747,ISSN 0167-4048,https://doi.org/10.1016/j.cose.2024.103747. (**SCIE, SJR Q1, IF=5.6**)
 13. Mohammad Imtiaz Nakib, **M.F. Mridha**,"Comprehensive watermelon disease recognition dataset", *Data in Brief*, Volume 53,2024,110182,ISSN 2352-3409,https://doi.org/10.1016/j.dib.2024.110182. (**ESCI, SJR Q3, IF=1.2**)
 14. Md Abrar Jahin, Md Sakib Hossain Shovon, Jungpil Shin, Istiyaque Ahmed Ridoy & **M. F. Mridha**,"Big Data—Supply Chain Management Framework for Forecasting: Data Preprocessing and Machine Learning Techniques", *Arch Computat Methods Eng* (2024). https://doi.org/10.1007/s11831-024-10092-9 (**SCIE, SJR Q1, IF=9.7**)
 15. Mohammad Sayem Chowdhury, Tofayet Sultan, Nusrat Jahan, **Muhammad Firoz Mridha**, Mejdil Safran, Sultan Alfarhood, Dunren Che "Leveraging deep neural networks to uncover unprecedented levels of precision in the diagnosis of hair and scalp disorders", *Skin Res Technol*. 2024; 30:e13660. https://doi.org/10.1111/srt.13660 (**SCIE, SJR Q2, IF=2.0**)
 16. Uddin MS, Mazumder MKA, Prity AJ, **Mridha MF**, Alfarhood S, Safran M and Che D (2024) Cauli-Det: enhancing cauliflower disease detection with modified YOLOv8. *Front. Plant Sci.* 15:1373590. doi: 10.3389/fpls.2024.1373590 (**SCIE, SJR Q1, IF=4.1**)
 17. Md. Eshmam Rayed, S.M. Sajibul Islam, Sadia Islam Niha, Jamin Rahman Jim, Md Mohsin Kabir, **M.F. Mridha**,"Deep learning for medical image segmentation: State-of-the-art advancements and challenges",*Informatics in Medicine Unlocked*,Volume 47,2024,101504,ISSN 2352-9148, https://doi.org/10.1016/j.imu.2024.101504. (**SJR Q2**)
 18. Md Saef Ullah Miah, Md Mohsin Kabir, Talha Bin Sarwar, Mejdil Safran, Sultan Alfarhood, **M F Mridha**,"A multimodal approach to cross-lingual sentiment analysis with ensemble of transformer and LLM. *Sci Rep* 14, 9603 (2024). https://doi.org/10.1038/s41598-024-60210-7 (**SCIE, SJR Q1, IF=3.8**)
 19. Tauhidul Islam, Md. Sadman Hafiz, Jamin Rahman Jim, Md. Mohsin Kabir, **M.F. Mridha**,"A systematic review of deep learning data augmentation in medical imaging: Recent advances and future research directions, *Healthcare Analytics*", Volume 5,2024,100340,ISSN 2772-4425,https://doi.org/10.1016/j.health.2024.100340. (**SJR Q2**)
 20. Tanzib Hosain, Jamin Rahman Jim, **M.F. Mridha**, Md Mohsin Kabir,"Explainable AI approaches in deep learning: Advancements, applications and challenges", *Computers and Electrical Engineering*,Volume 117,2024, 109246,ISSN 0045-7906, https://doi.org/10.1016/j.compeleceng.2024.109246.(**SCIE, SJR Q1, IF=4.3**)
 21. Md Mohsin Kabir, Md Sadman Hafiz, Shattik Bandyopadhyaa, Jamin Rahman Jim, **M.F. Mridha**,"Tea leaf age quality: Age-stratified tea leaf quality classification dataset",*Data in Brief*,Volume 54,2024,110462,ISSN 2352-3409,https://doi.org/10.1016/j.dib.2024.110462. (**ESCI,SJR Q3, IF=1.2**)
 22. Mazumder MKA, **Mridha M F**, Alfarhood S, Safran M, Abdullah-Al-Jubair M and Che D (2024) A robust and light-weight transfer learning-based architecture for accurate detection of leaf diseases across multiple plants using less amount of images. *Front. Plant Sci.* 14:1321877. doi: 10.3389/fpls.2023.1321877 (**SCIE, SJR Q1, IF=4.1**)

23. SM Nuruzzaman Nobel; Md Asif Imran; Nahida Zaman Bina; Md Mohsin Kabir; Mejdil Safran; Sultan Alfarhoo, **M. F. Mridha**, "Palm Leaf Health Management: A Hybrid Approach for Automated Disease Detection and Therapy Enhancement.," in IEEE Access, doi: 10.1109/ACCESS.2024.3351912. (**SCIE, SJR Q1, IF=3.9**)
24. Md. Ahsan Habib; Md. Anwar Hussien Wadud; Lubna Yeasmin Pinky; Md. Mehedi Hasan Talukder; M. M. Rahman, **M. F. Mridha**, Yuichi Okuyama, Jungpil Shin, "GAC-Text-to-Image Synthesis with Generative Models using Attention Mechanisms with Contrastive Learning," in IEEE Access, doi: 10.1109/ACCESS.2023.3342866. (**SCIE, SJR Q1, IF=3.9**)
25. Md Reazul Islam, Khondokar Oliullah, Md Mohsin Kabir, Munzirul Alom, **M.F. Mridha**, "Machine learning enabled IoT system for soil nutrients monitoring and crop recommendation", Journal of Agriculture and Food Research, Volume 14, 2023, 100880, ISSN 2666-1543, <https://doi.org/10.1016/j.jafr.2023.100880>. (**SCIE, SJR Q1, IF=3.8**)
26. Keya AJ, Shajeeb HH, Rahman MS, **Mridha MF** (2023) FakeStack: Hierarchical Tri-BERT-CNN-LSTM stacked model for effective fake news detection. PLoS ONE 18(12): e0294701. <https://doi.org/10.1371/journal.pone.0294701> (**SCIE, SJR Q1, IF=2.9**)
27. Jahin, Md Abrar, Shovon, Md Sakib Hossain, Islam, Md. Saiful, Shin, Jungpil, **Mridha, M. F.** and Okuyama, Yuichi: "QAmplifyNet: pushing the boundaries of supply chain backorder prediction using interpretable hybrid quantum-classical neural network." Scientific Reports, 13, 18246 (2023). <https://doi.org/10.1038/s41598-023-45406-7> (**SCIE, SJR Q1, IF=3.8**)
28. M. S. H. Shovon, **M. F. Mridha**, K. M. Hasib, S. Alfarhood, M. Safran and D. Che, "Addressing Uncertainty in Imbalanced Histopathology Image Classification of HER2 Breast Cancer: An interpretable Ensemble Approach with Threshold Filtered Single Instance Evaluation (SIE)," in IEEE Access, doi: 10.1109/ACCESS.2023.3327898. (**SCIE, SJR Q1, IF=3.9**)
29. J. R. Jim, M. T. Hosain, **M. F. Mridha**, M. M. Kabir and J. Shin, "Toward Trustworthy Metaverse: Advancements and Challenges," in IEEE Access, vol. 11, pp. 118318-118347, 2023, doi: 10.1109/ACCESS.2023.3326258. (**SCIE, SJR Q1, IF=3.9**)
30. Keya, Ashfia Jannat, Arpona, Sayefa Arafah, Kabir, Muhammad Mohsin, and **M.F Mridha**: Recurrent ALBERT for recommendation: A hybrid architecture for accurate and lightweight restaurant recommendations. Cogn. Comput. Syst. 1–15 (2023). <https://doi.org/10.1049/ccs2.12090> (**SJR Q3**)
31. I. Mahmud, M. M. Kabir, J. Shin, C. Mistry, Y. Tomioka and **M. F. Mridha**, "Advancing Wildlife Protection: Mask R-CNN for Rail Track Identification and Unwanted Object Detection," in IEEE Access, doi: 10.1109/ACCESS.2023.3313253. (**SCIE, Q1, IF=3.90**)
32. Mustak Un Nobil, Md., Md. Rifat, **M. F. Mridha**, Sultan Alfarhood, Mejdil Safran, and Dunren Che. 2023. "GLD-Det: Guava Leaf Disease Detection in Real-Time Using Lightweight Deep Learning Approach Based on MobileNet" Agronomy 13, no. 9: 2240. <https://doi.org/10.3390/agronomy13092240>. (**SCIE, Q1, IF=3.30**)
33. D. Mistry, **M. F. Mridha**, M. Safran, S. Alfarhood, A. K. Saha and D. Che, "Privacy-Preserving On-Screen Activity Tracking and Classification in E-Learning Using Federated Learning," in IEEE Access, doi: 10.1109/ACCESS.2023.3299331. (**SCIE, Q1, IF=3.90**)
34. A. J. Keya, M. M. Kabir, N. J. Shammey, **M. F. Mridha**, M. R. Islam and Y. Watanobe, "G-BERT: An Efficient Method for Identifying Hate Speech in Bengali Texts on Social Media," in IEEE Access, doi: 10.1109/ACCESS.2023.3299021. (**SCIE, Q1, IF=3.90**)

35. Khan Md Hasib , Nurul Akter Towhid , Kazi Omar Faruk , Jubayer Al Mahmud, **M. F. Mridha**,” ,Strategies for Enhancing the Performance of News Article Classification in Bangla: Handling Imbalance and Interpretation” Engineering Applications of Artificial Intelligence, Volume 125, 2023,106688, ISSN 0952-1976, <https://doi.org/10.1016/j.engappai.2023.106688>. (**SCI,Q1, IF=8.0**)
36. M. S. H. Shovon, S. J. Mozumder, O. K. Pal, **M. F. Mridha**, N. Asai and J. Shin, "PlantDet: A Robust Multi-Model Ensemble Method Based on Deep Learning for Plant Disease Detection," in IEEE Access, vol. 11, pp. 34846-34859, 2023, doi: 10.1109/ACCESS.2023.3264835. (**SCIE,Q1, IF=3.90**)
37. K. Mridha, M. M. Uddin, J. Shin, S. Khadka and **M. F. Mridha**, "An Interpretable Skin Cancer Classification Using Optimized Convolutional Neural Network for a Smart Healthcare System," in IEEE Access, vol. 11, pp. 41003-41018, 2023, doi: 10.1109/ACCESS.2023.3269694. (**SCIE,Q1, IF=3.90**)
38. Md. Asraf Ali, Md. Kishor Morol, **Muhammad F Mridha**, Nafiz Fahad, Md Sadi Al Huda and Nasim Ahmed, “Exploring a Novel Machine Learning Approach for Evaluating Parkinson's Disease, Duration, and Vitamin D Level” International Journal of Advanced Computer Science and Applications(IJACSA), 14(12), 2023. <http://dx.doi.org/10.14569/IJACSA.2023.0141265> (**SJR Q3**)
39. Mohammad, Zabir, Arif Reza Anwary, **Muhammad Firoz Mridha**, Md Sakib Hossain Shovon, and Michael Vassallo. 2023. "An Enhanced Ensemble Deep Neural Network Approach for Elderly Fall Detection System Based on Wearable Sensors" Sensors 23, no. 10: 4774. <https://doi.org/10.3390/s23104774>. (**SCIE, Q1, IF=3.40**)
40. K. Mridha, S. Ghimire, J. Shin, A. Aran, M. M. Uddin and **M. F. Mridha**, "Automated Stroke Prediction Using Machine Learning: An Explainable and Exploratory Study with a Web Application for Early Intervention," in IEEE Access, vol. 11, pp. 52288-52308, 2023, doi: 10.1109/ACCESS.2023.3278273. (**SCIE, Q1, IF=3.90**)
41. Hosen, Sabbir, Jannatul Ferdous Eva, Ayman Hasib, Alope Kumar Saha, **M. F. Mridha**, and Anwar Hussen Wadud. "HQA-Data: A Historical Question Answer Generation Dataset from Previous Multi Perspective Conversation." Data in Brief (2023): 109245. (**ESCI, Q3, IF=1.20**)
42. Islam, Md. Reazul, Md. Mohsin Kabir, **Muhammad Firoz Mridha**, Sultan Alfarhood, Mejdil Safran, and Dunren Che. 2023. "Deep Learning-Based IoT System for Remote Monitoring and Early Detection of Health Issues in Real-Time" Sensors 23, no. 11: 5204. <https://doi.org/10.3390/s23115204>. (**SCIE,Q1, IF=3.40**)
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