ABDULLAH AL MAMUN

PhD (Ongoing), Griffith University, Australia | Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia
M. Eng. Sc. (M.Phil.), Multimedia University, Malaysia
B.Sc. in Electrical and Electronic Engineering, Pabna University of Science & Technology, Bangladesh

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Google Scholar ID, Researchgate ID and Linkedin ID

Last Job Position

Assistant Professor & Chairman, EEE department, Feni University, Bangladesh

Personal Statement

I am currently pursuing a Doctor of Philosophy (PhD) in the School of Information and Communication at Griffith University and am associated with the Commonwealth Scientific and Industrial Research Organization (CSIRO) for my PhD research. I served as a faculty member in the Electrical and Electronic Engineering (EEE) department at Feni University for five years from 2019. I completed my Master of Engineering Science (M.Phil.) at Multimedia University, Malaysia, in 2021. Additionally, I earned my Bachelor of Science degree in EEE from Pabna University of Science and Technology (PUST) in 2018, securing the 1st position with a CGPA of 3.87. I have a strong interest in image processing and am committed to continuous knowledge acquisition. I have published about 51 articles with 510 citations (Google Scholar) in different publishers and am waiting to finish more research shortly.

Research Interest

Image Processing, Artificial Intelligence, Machine Learning, Deep Learning and Self-supervised Learning.

Educational Background

October 2023-Now	**Doctor of Philosophy (Ongoing), School of Information and Communication** Griffith University (GU), Australia (Weblink) | CSIRO (Weblink). ● Thesis Title: "Plant Disease Detection Using Self-Supervised Learning" Supervised By: Dr Mohammad Awrangjeb, Senior Lecturer, Griffith University, Australia
September 2019 June 2021	**Master of Engineering Science (By Research), Faculty of Engineering and Technology** Multimedia University (MMU), Malaysia (Weblink). ● Thesis Title: "Lane Markings Detection Using Encode-Decode Instance Segmentation Network" ● Supervised By: Dr Em Poh Ping, Assistant Professor, Multimedia University, Malaysia.
January 2013 October 2018	**Bachelor of Science, Electrical and Electronic Engineering**, Pabna University of Science & Technology (PUST), Pabna, Bangladesh (Weblink). ● **CGPA 3.87** on a scale of 4.00; Marks in Percentage: 89.08(%); **Merit Position: 1/46** ● Thesis Title:" Small Intestine Bleeding Detection Using Wireless Capsule Endoscopy (WCE)" ● Supervised By: Md Motahar Hossain, Assistant Professor, Dept. of EEE, PUST, Pabna.
January 2011 December 2012	**Higher Secondary Certificate (Science)** B.A.F Shaheen College, Tejgaon, Bangladesh ● GPA: 5.00 on a scale of 5.00
January 2010 December 2011	**Secondary School Certificate (Science)** Shaheed Ramizuddin High School, Bangladesh ● GPA: 5.00 on a scale of 5.00

Scholarship, Awards and Academic Achievement

2023-2026	Griffith University International Postgraduate Research Scholarship, Australia
2023-2026	Griffith University Postgraduate Research Scholarship, Australia
2023-2026	Commonwealth Scientific and Industrial Research Organization (CSIRO) Top-Up Scholarship
2019-2020	Fundamental Research Grant Scheme (FRGS), Malaysia
2019-2020	Multimedia University Internal Grant, Malaysia
2021	Fi Sabilillah Research Development Grant Scheme (FRDGS). Malaysia

2014-2018	University Grant Commission, Scholarship (All academic terms for continuous outstanding academic excellence)
2018	Academic Excellence Award

Teaching Experiences

March 2024- June 2024 July 2025- Oct 2025	Casual Academic, School of Information and Communication, Griffith University, Australia
Jan 2023-Sept 2023	Assistant Professor & Chairman, Electrical and Electronic Engineering, Feni University, Bangladesh
Jan 2019-Dec 2022	Lecturer & Chairman [In-charge (Feb 2021-Dec 2022)], Electrical and Electronic Engineering, Feni University, Bangladesh
May 2018- Dec 2018	Chief Instructor, Electrical Department, Mirpur Institute of Science and Technology, Bangladesh

Publications

I have published 51 research articles, comprising 33 refereed journals and 18 international conferences/book chapters. One more manuscript is under review in a journal and waiting to finish a few more research works soon. Since 2019, my manuscripts have reached 510 citations (Google Scholar). The list of my publications is listed below:

Refereed journal articles

S.N.	Journal Information	Indexing and Scores
1.	**A. Al Mamun**, D. Ahmedt-Aristizabal, M. Zhang, M. I. Hossen, Z. Hayder, and M. Awrangjeb, "Plant Disease Detection Using Self-supervised Learning: A Systematic Review," IEEE Access, 2024, doi: 10.1109/ACCESS.2024.3475819.	**ISI, SCOPUS Q1**, Impact Factor 3.4, Cite Score 9.8
2.	M. I. Hossen, M. Awrangjeb, S. Pan, and **A. A. Mamun**, ''Transfer learning in agriculture: a review,'' Artificial Intelligence Review, vol. 58, pp. 1–37, 4 2025. [Online]. Available: https://link.springer.com/article/ 10.1007/s10462-024-11081-x	**ISI, SCOPUS Q1**, Impact Factor 10.7, Cite Score 14.9
3.	**A. A. Mamun**, M. Zhang, D. Ahmedt-Aristizabal, Z. Hayder, and M. Awrangjeb, "PSMamba: Progressive Self-supervised Vision Mamba for Plant Disease Recognition," arXiv.org, 2025. https://arxiv.org/abs/2512.14309 (accessed Dec. 24, 2025). (Submitted in Pattern Recognition)	**ISI, SCOPUS Q1**, Impact Factor 7.6, Cite Score 15.8
4.	**A. Al Mamun**, E. Poh Ping, J. Hossen, A. Tahabilder, and B. Jahan, "A Comprehensive Review on Lane Marking Detection Using Deep Neural Networks," Sensors 2022, Vol. 22, Page 7682, vol. 22, no. 19, p. 7682, Oct. 2022, doi: 10.3390/S22197682.	**ISI, SCOPUS Q1**, Impact Factor 3.847, Cite Score 6.4
5.	**A. Al Mamun,** Ping, E. P., Hossen, M. J., Tahabilder, A., & Jahan, B. (2023). A deep learning approach for lane marking detection applying encode-decode instant segmentation network. Heliyon, e14212. https://doi.org/10.1016/j.heliyon.2023.e14212	**ISI, SCOPUS Q1**, Impact Factor 3.4, Cite Score 3.963
6.	B. U. Mahmud, G. Y. Hong, **A. Al Mamun**, E. P. Ping, and Q. Wu, "Deep Learning-Based Segmentation of 3D Volumetric Image and Microstructural Analysis," Sensors 2023, Vol. 23, Page 2640, vol. 23, no. 5, p. 2640, Feb. 2023, doi: 10.3390/S23052640.	**ISI, SCOPUS Q1**, Impact Factor 3.847, Cite Score 6.4
7.	B. U. Mahmud, **A. Al Mamun**, M. J. Hossen, G. Y. Hong, and B. Jahan, "Light-Weight Deep Learning Model for Accelerating the Classification of Mango-Leaf Disease," Emerg. Sci. J., vol. 8, no. 1, pp. 28–42, Feb. 2024, doi: 10.28991/ESJ-2024-08-01-03.	**SCOPUS Q1**, Cite Score 3.4
8.	A. Musha, R. Hasnat, **A. Al Mamun**, E. P. Ping, and T. Ghosh, "Computer-Aided Bleeding Detection Algorithms for Capsule Endoscopy: A Systematic Review," Sensors 2023, Vol. 23, Page 7170, vol. 23, no. 16, p. 7170, Aug. 2023, doi: 10.3390/S23167170.	**ISI, SCOPUS Q1**, Impact Factor 3.847, Cite Score 6.4
9.	M. Shahriar Zaman Abid, B. Jahan, **A. Al Mamun**, M. Jakir Hossen, and S. Hossain Mazumder, "Bangladeshi crops leaf disease detection using YOLOv8," Heliyon, vol. 10, no. 18, Sep. 2024, doi: 10.1016/j.heliyon.2024.e36694.	**ISI, SCOPUS Q1**, Impact Factor 3.4, Cite Score 3.963
10.	Md. F. Ali, Md. R. I. Sheikh, **A. A. Mamun**, and Md. J. Hossen, "Techno-Economic, Predictive Modeling, and Demand Response Analysis of a Renewable Energy-Based Microgrid for Residential Applications," IEEE Access, vol. 13, pp. 53748–53771, 2025, doi: https://doi.org/10.1109/access.2025.3552056.	**ISI, SCOPUS Q1**, Impact Factor 3.4, Cite Score 9.8
11.	M. J. Hossen, T. T. Ramanathan, and **A. Al Mamun**, "An Ensemble Feature Selection Approach-Based Machine Learning Classifiers for Prediction of COVID-19 Disease," Int. J. Telemed. Appl., vol. 2024, 2024, doi: 10.1155/2024/8188904.	**ISI, SCOPUS Q1**, Impact Factor 4.4, Cite Score 4.6
12.	M. S. Islam, A. I. Ferdous, **A. Al Mamun**, M. S. Anower, M. J. Hossen, S. U. Ahmed, Ultra-sensitive terahertz photonic crystal fiber sensor for detection of tuberculosis, Sensing and Bio-Sensing Research (2025) 100814	**ISI Q1, SCOPUS Q2**, Impact Factor 5.4, Cite Score 10.7

13.	A. H. M. I. Ferdous, Md. S. Islam, **A. A. Mamun**, Md. H. Reza, Md. J. Hossen, and Md. S. Anower, "Terahertz PCF sensor for explosive detection: A machine learning approach to nitroglycerine and royal demolition analysis," Journal of Hazardous Materials Advances, vol. 20, p. 100886, Sep. 2025, doi: https://doi.org/10.1016/j.hazadv.2025.100886.	**ISI, SCOPUS Q1**, Impact Factor 7.7, Cite Score 10.6
14.	M. S. Islam, A. H. Ferdous, M. J. Hossen, **A. A. Mamun**, K. S. Noor, D. Kundu, and M. G. Hasan, ''Urinary glucose detection with spiral shape hollow core photonic crystal fiber: Towards improved diabetes management,'' Sensing and Bio-Sensing Research, vol. 47, p. 100748, 2 2025. [Online]. Available: https://www.sciencedirect.com/ science/article/pii/S2214180425000145?via%3Dihub	**ISI Q1, SCOPUS Q2**, Impact Factor 5.4, Cite Score 10.7
15.	M. S. Hossain, A. H. Joy, D. Kundu, I. Ferdous, **A. A. Mamun**, and Md Jakir Hossen, "High-Sensitivity Toxic Gas Sensor Utilizing Photonic Crystal Fibers in the THz Spectrum," Emerging Science Journal, vol. 9, no. 2, pp. 524–538, Apr. 2025, doi: https://doi.org/10.28991/esj-2025-09-02-01.	**SCOPUS Q1**, Cite Score 3.4
16.	Mst. Aysha Siddika, R. Islam, M. F. Ali, **A. A. Mamun**, and Md. Jakir Hossen, "Enhanced efficiency of thin-film solar cells using AgInSe2 back surface field layer: a SCAPS-1D numerical study," Materials Technology, vol. 40, no. 1, Sep. 2025, doi: https://doi.org/10.1080/10667857.2025. 2562530.	**ISI Q1, SCOPUS Q2**, Impact Factor 3.7, Cite Score 7.8
17.	A. H. M. Iftekharul Ferdous, T. K. Nisha, **A. A. Mamun**, Md. J. Hossen, Md. S. Islam, Md. F. Ali, and Md. S. Anower, "Smart photonic crystal fiber optical sensor for tuberculosis detection with machine learning integration," Scientific Reports, vol. 15, Art. no. 43138, 2025, doi: 10.1038/s41598-025-27290-5.	**ISI, SCOPUS Q1**, Impact Factor 3.9, Cite Score 7.1
18.	Md. R. Ali, Md. F. Ali, D. Biswas, **A. Al Mamun**, and Md. J. Hossen, "Sustainable energy solutions for rural Bangladesh: an optimized hybrid microgrid model," Frontiers in Energy Research, vol. 13, Nov. 2025, doi: https://doi.org/10.3389/fenrg.2025.1652536.	**ISI Q3, SCOPUS Q2**, Impact Factor 2.4, Cite Score 2.9
19.	K. S. Noor, M. M. Bani, M. S. Islam, A. I. Ferdous, M. J. Hossen, **A. A. Mamun**, N. U. Badhon, "Fiber Optic Breakthrough: Terahertz Detection of Illegal Drugs," Emerging Science Journal, vol. 8, no. 6, pp. 2465–2479, Dec. 2024, doi: https://doi.org/10.28991/esj-2024-08-06-019.	**SCOPUS Q1**, Cite Score 3.4
20.	A. Musha, R. Hasnat, **A. Al Mamun**, M. S. Hossain, M. J. Hossen, and T. Ghosh, "A systematic review of ulcer detection methods in wireless capsule endoscopy," Informatics Med. Unlocked, vol. 51, p. 101600, Jan. 2024, doi: 10.1016/J.IMU.2024.101600.	**SCOPUS Q2**, Cite Score 9.5
21.	**A. Al Mamun**, P. P. Em, T. Ghosh, M. M. Hossain, M. G. Hasan, and M. G. Sadeque, "Bleeding recognition technique in wireless capsule endoscopy images using fuzzy logic and principal component analysis," Int. J. Electr. Comput. Eng., vol. 11, no. 3, pp. 2689–2696, 2021, doi: 10.11591/ijece.v11i3.pp2688-2695.	**SCOPUS Q2**, Cite Score 3.2
22.	**A. Al Mamun**, M. S. Hossain, P. P. Em, A. Tahabilder, R. Sultana, and M. A. Islam, "Small intestine bleeding detection using color threshold and morphological operation in WCE images," Int. J. Electr. Comput. Eng., vol. 11, no. 4, pp. 3040–3048, Aug. 2021, doi: 10.11591/ijece.v11i4.pp3040-3048.	**SCOPUS Q2**, Cite Score 3.2
23.	**A. Al Mamun**, P. P. Em, and J. Hossen, "Lane marking detection using simple encode decode deep learning technique : SegNet," Int. J. Electr. Comput. Eng., vol. 11, no. 4, pp. 3032–3039, Aug. 2021, doi: 10.11591/ijece.v11i4.pp3032-3039	**SCOPUS Q2**, Cite Score 3.2
24.	**A. Al Mamun**, P. P. Em, and J. Hossen, "An efficient encode-decode deep learning network for lane markings instant segmentation," Int. J. Electr. Comput. Eng., vol. 11, no. 6, pp. 4982–4990, Dec. 2021, doi: 10.11591/IJECE.V11I6.PP4982-4990.	**SCOPUS Q2**, Cite Score 3.2
25.	**A. Al Mamun**, P. P. Em, M. J. Hossen, A. Tahabilder, and B. Jahan, "Efficient lane marking detection using deep learning technique with differential and cross-entropy loss," Int. J. Electr. Comput. Eng., vol. 12, no. 4, pp. 4206–4216, Aug. 2022, doi: 10.11591/IJECE.V12I4.PP4206-4216.	**SCOPUS Q2**, Cite Score 3.2
26.	**A. Al Mamun,** J. Hossen, A. Tahabilder, A. Musha, R. Hasnat, and S. K. Saha, "Acute lymphoblastic leukemia detection approach from peripheral blood smear using color threshold and morphological techniques," Int. J. Electr. Comput. Eng., vol. 12, no. 4, pp. 3692–3699, Aug. 2022, doi: 10.11591/IJECE.V12I4.PP3692-3699.	**SCOPUS** Q2, Cite Score 3.2
27.	A. Musha, **A. Al Mamun**, A. Tahabilder, J. Hossen, B. Jahan, and S. Ranjbari, "A deep learning approach for COVID-19 and pneumonia detection from chest X-ray images," Int. J. Electr. Comput. Eng., vol. 12, no. 4, pp. 3655–3664, Aug. 2022, doi: 10.11591/IJECE.V12I4.PP3655-3664.	**SCOPUS Q2**, Cite Score 3.2
28.	M. F. Ali, D. Biswas, R. Islam, **A. A. Mamun**, and Md. Jakir Hossen, "Techno-economic optimization of battery storage technologies for off-grid hybrid microgrids in multiple rural locations of Bangladesh," Frontiers in Energy Research, vol. 13, Aug. 2025, doi: https://doi.org/10.3389/fenrg.2025.1654615.	**ISI Q3, SCOPUS Q2**, Impact Factor 2.4, Cite Score 2.9
29.	Md. M. Hasan, Mst. A. Siddika, Md. F. Ali, Md. R. I. Sheikh, **A. Al Mamun**, and M. J. Hossen, "Next-generation lead-free solar cells with MASnBr3/ZnSnN2 dual absorbers for high efficiency," Frontiers in Materials, vol. 12, Aug. 2025, doi: https://doi.org/10.3389/fmats.2025.1652733.	**ISI Q3, SCOPUS Q2**, Impact Factor 2.9, Cite Score 4.8

30.	M. Armanur Rahman, J. Hossen, A. Sultana, **A. Al Mamun**, and N. A. A. Aziz, "A smart method for spark using neural network for big data," *Int. J. Electr. Comput. Eng.*, vol. 11, no. 3, pp. 2525–2534, 2021, doi: 10.11591/ijece.v11i3.pp2525-2534	**SCOPUS Q2**, Cite Score 3.2
31.	**A. Al Mamun,** E. Poh Ping, and M. J. Hossain, "A Deep Learning Instance Segmentation Approach for Lane Marking Detection," Int. J. Comput. Digit. Syst., vol. 12, no. 1, pp. 2210–142, Aug. 2021, doi: 10.12785/IJCDS/120167.	**SCOPUS Q3**, Cite Score 1.4
32.	T. T. Ramanathan, Md. Jakir Hossen, **A. A. Mamun**, and J. E. Raja, "Ensemble recursive feature elimination-based ensemble classification for medical diagnosis," Indonesian Journal of Electrical Engineering and Computer Science, vol. 40, no. 2, pp. 758–758, Nov. 2025, doi: https://doi.org/10.11591/ijeecs.v40.i2.pp758-771.	**SCOPUS Q4**, Cite Score 2.9
33.	D. Kundu, A. W. Reza, A. H. M. I. Ferdous, **A. A. Mamun**, and Md. Jakir Hossen, "Sawtooth Bow-Tie Antenna: A Compact Solution for Super High-Frequency Ku Band, K Band, and Ultra-Wideband (UWB) Wireless Communication Systems," International Journal of Engineering Trends and Technology, vol. 73, no. 4, pp. 210–224, Apr. 2025, doi: https://doi.org/10.14445/22315381/ijett-v73i4p119	**SCOPUS Q4**, Cite Score 0.6

Refereed international conferences/book chapters

S.N.	Conferences Information	Indexing
1.	**A. A. Mamun**, M. Zhang, D. Ahmedt-Aristizabal, Z. Hayder, and M. Awrangjeb, "StateSpace-SSL: Linear-Time Self-supervised Learning for Plant Disease Detection," arXiv.org, 2025. https://arxiv.org/abs/2512.09492 (accessed Dec. 24, 2025). (Accepted in AgriAi26, co-located with AAAI)	AAAI
2.	**A. Al Mamun**, M. S. Hossain, M. M. Hossain, and M. G. Hasan, "Discretion Way for Bleeding Detection in Wireless Capsule Endoscopy Images," May 2019, doi: 10.1109/ICASERT.2019.8934589.	IEEE
3.	**A. Al Mamun** and M. S. Hossain, "Ulcer Detection in Image Converted from Video Footage of Wireless Capsule Endoscopy," May 2019, doi: 10.1109/ICASERT.2019.8934597.	IEEE
4.	**A. Al Mamun**, M. S. Hossain, M. E. Khallil, A. Tahabilder, T. K. Das, and R. Islam, "Convenient Way to Detect Ulcer in Wireless Capsule Endoscopy through Fuzzy Logic Technique," in 2020 IEEE Region 10 Symposium, TENSYMP 2020, Jun. 2020, pp. 880–883, doi: 10.1109/TENSYMP50017.2020.9231004.	IEEE
5.	**A. Al Mamun**, E. P. Ping, and M. J. Hossen, "A Review on Lane Marking Detection Using Deep Neural Network," pp. 439–451, 2022, doi: 10.1007/978-981-16-2543-5_37.	Springer
6.	M. Ahmmad, **A. Al Mamun**, A. Tahabilder, S. Rumana, and A. Mahfuja, "An Automated Coronavirus Disease Detection Approach Using a Deep Neural Network from X-ray Images," Lect. Notes Electr. Eng., 2021, doi: 10.1007/978-981-16-2543-5_36.	Springer
7.	M. S. Hossain, **A. Al Mamun**, M. G. Hasan, and M. M. Hossain, "Easy Scheme for Ulcer Detection in Wireless Capsule Endoscopy Images," in 1st International Conference on Advances in Science, Engineering and Robotics Technology 2019, ICASERT 2019, May 2019, pp. 1–5, doi: 10.1109/ICASERT.2019.8934510.	IEEE
8.	M. S. Hossain, **A. Al Mamun**, T. Ghosh, M. G. Hasan, M. M. Hossain, and A. Tahabilder, "Ulcer detection in wireless capsule endoscopy using locally computed features," in Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST, Feb. 2020, vol. 325 LNICST, pp. 491–502, doi: 10.1007/978-3-030-52856-0_39	Springer
9.	S. Narjim, **A. Al Mamun**, and D. Kundu, "Diagnosis of acute lymphoblastic leukemia from microscopic image of peripheral blood smear using image processing technique," in Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST, Feb. 2020, vol. 325 LNICST, pp. 515–526, doi: 10.1007/978-3-030-52856-0_41.	Springer
10.	A. Tahabilder, **A. A. Mamun**, N. Rahman, and P. K. Ghosh, "Co-optimal PMU Placement for Complete Monitoring of Distributed Generations Installed System," in Lecture Notes in Electrical Engineering, vol. 699, Springer, Singapore, 2021, pp. 477–483	Springer
11.	R. Hasnat, **A. Al Mamun**, A. Musha, and T. Ghosh, "Computer-Aided Polyp Removal Detection in Endoscopic Images," 2021 3rd Int. Conf. Electr. Electron. Eng., pp. 37–40, Dec. 2021, doi: 10.1109/ICEEE54059.2021.9718791.	IEEE
12.	R. Hasnat, **A. Al Mamun**, A. Musha, and A. Tahabilder, "A Review on Heart Diseases Prediction Using Artificial Intelligence," pp. 41–54, 2023, doi: 10.1007/978-3-031-34622-4_4/COVER.	Springer
13.	B. Jahan, B. U. Mahmud, **A. Al Mamun**, M. Mujibur Rahman Majumder, and M. Alam, "Impact Analysis of Harassment Against Women in Bangladesh Using Machine Learning Approaches," Lect. Notes Electr. Eng., vol. 730, pp. 549–559, 2022, doi: 10.1007/978-981-33-4597-3_50	Springer

14.	R. Khatun, K. Sa. Ajay, and **A. Al Mamun**, "Error Detection in P300 Speller Device Applying Differential Entropy Features and Machine Learning Approaches," 2024 6th Int. Conf. Electr. Eng. Inf. & Commun. Technol., no. May, pp. 1157–1162, 2024, doi: 10.1109/ICEEICT62016.2024.10534497.	IEEE
15.	Rabeya Khatun, Dr. Ajay Krishno Sarkar and **A. Al Mamun**, "Ultrasound Image Analysis for Normal Pregnancy and Ectopic Pregnancy," *2020 IEEE Reg. 10 Symp. TENSYMP 2020*, no. June, pp. 855–858, 2020, doi: 10.1109/TENSYMP50017.2020. 9230942	IEEE
16.	M. M. H. Tanim, M. F. Ali, M. A. Shobug, and **A. A. Mamun**, "Analysis of the Impacts on Power Flow After Introducing Renewable Energy Source in a Power System with HVDC Line," in *Lecture Notes in Electrical Engineering*, 2021, vol. 699, pp. 391–402, doi: 10.1007/978-981-15 -7994-3_36	Springer
17.	T. K. Das, R. Islam, M. E. Khallil, **A. Al Mamun**, D. Kundu, and M. Rashid, "Design Optimization and Economic Analysis of a Hybrid System for a Hilly Area in Bangladesh," pp. 93–105, 2021, doi: 10.1007/978-981-15-9505-9_10.	Springer
18.	Musha, R. Hasnat, **A. Al Mamun**, and T. Ghosh, "Deep Learning-Based Comparative Study to Detect Polyp Removal in Endoscopic Images," 2022 Int. Conf. Emerg. Smart Comput. Informatics, pp. 1–5, Mar. 2022, doi: 10.1109/ESCI53509.2022.9758254	IEEE

Papers in preparation

1. **A. Al. Mamun**, M. Zhang, D. Ahmedt-Aristizabal, Hayder, and M. Awrangjeb, ConMamba: Contrastive Vision Mamba for Plant Disease Detection (Major revision in Pattern Recognition).

Project works

1. Android-based load control and regulation via Bluetooth and Wi-Fi.
2. Automatic Fish Feeder by Arduino UNO

Attended Workshop

1. Workshop on Research Methodology organized by Feni University Research Cell.
2. Workshop on Engineering Software (PVSyst, PSCAD, Ret Screen, Mathematica, Homer, Amps, Research Methodology, Latex, MATLAB) organized by IEEE PUST Branch
3. Workshop on Engineering Skill development organized by IEEE. PUST Branch

Volunteering Activities and Leadership

1. President, Griffith University Bangladesh Association (2024-2025)
2. Founder of Research Association, PUST
3. Member IEEE.
4. Volunteer on the first International Conference on Artificial Intelligence for Healthcare in Bangladesh

Programming and Computer Skills

Numerical Analysis	: MATLAB
Programming Language	: C, C++, Microprocessor Emulator, HTML, Python
Word Processing and Presentation	: MS Word, MS PowerPoint, MS Excel, EndNote, Mendeley
Electrical Circuit Simulation	: Proteus
Engineering Design	: Microsoft Visio, draw Io, lucid chart

References

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