Md. Ferdous

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SkaaaaJ

A Dept. of CSE, BSMRSTU



Career Objective

To build a career as a promising researcher, and academician working for the amelioration of the future world.

Employment History

Jul. 2023 -...
■ Lecturer. Dept. of Computer Science and Engineering, Bangabandhu Sheikh Mujibur Rahman Science & Technology University, Gopalganj-8100, Bangladesh.
https://www.bsmrstu.edu.bd/dev/dept/profile.php?dept=cse&id=36

Jan. 2022 – Jul. 2023 Former Lecturer. Dept. of Computer Science and Engineering, Uttara University, Uttara, Dhaka.

Apr. 2022 -... International Graduate Intern, Advanced Telerobotics Research Laboratory, Kent State University, Kent, Ohio, USA. https://www.atr.cs.kent.edu/people/team/

Education

2020 − 2022 Master of Science in Computer Science and Engineering, Khulna University of Engineering & Technology (KUET), Khulna-9203.

Thesis title: A Deep Learning-based Architecture for Hard Hat and Surgical Waste Recognition CGPA: 3.83 out of 4

Description 2018 ■ Bachelor of Science in Computer Science and Engineering, Bangabandhu Sheikh Mujibur Rahman Science and Technology University, Gopalganj-8000.

CGPA: 3.79 out of 4

2011 − 2013 Higher Secondary Certificate, Science, Shahid Smrity Collage, Nesarabad, Pirojpur. GPA: 5 out of 5

2009 − 2011 Secondary School Certificate, Science, Baldia Secondary School, Nesarabad, Pirojpur. GPA: 5 out of 5

Research Publications

Journal Articles

Ferdous, Md, & Ahsan, S. M. M. (2022a). Ppe detector: A yolo-based architecture to detect personal protective equipment (ppe) for construction sites. *PeerJ Computer Science*, 8, e999. IF: 4.41, SJR: Q1. %doi:https://doi.org/10.7717/peerj-cs.999

Ferdous, Md, & Ahsan, S. M. M. (2022b). A computer vision-based system for surgical waste detection. International Journal of Advanced Computer Science and Applications, 13(3. IF: 1.092, SJR: Q3). %doi:https://doi.org/10.14569/IJACSA.2022.0130366

Conference Proceedings

- Sikder, M. F., **Ferdous, Md**, Afroz, S., Podder, U., Fatema, K., Hossain, M. N., ... Baowaly, M. K. (2023). Explainable bengali multiclass news classification. In 2023 26th international conference on computer and information technology (iccit) (pp. 1–6). IEEE.
- Mahmud, S., **Ferdous**, **Md**, Sourave, R., Shuvo, M. I. R., & Kim, J.-H. (2022). An essential robot vision system for robot assisted plant disaster prevention and response missions. In 2022 25th international conference on computer and information technology (iccit) (pp. 1116–1121). IEEE.

 *doi:https://doi.org/10.1109/ICCIT57492.2022.10056111
- Ferdous, Md, & Ahsan, S. M. M. (2021). Multi-scale safety hardhat wearing detection using deep learning: A top-down and bottom-up module. In 2021 international conference on electrical, communication, and computer engineering (icecce), kuala lumpur, malaysia (pp. 1–6). IEEE. %doi:https://doi.org/10.1109/ICECCE52056.2021.9514144
- Peya, Z. J., **Ferdous, Md**, Akhand, M., Zilani, M. G., & Siddique, N. (2021). Asd detection using higuchi's fractal dimension from eeg. In 2021 ieee international conference on biomedical engineering, computer and information technology for health (becithcon) (pp. 22–25). IEEE.

 *doi:https://doi.org/10.1109/BECITHCON54710.2021.9893548

Datasets Contribution

- Ferdous, Md.; Ahsan, Sk. Md. Masudul (2022): CHVG Dataset. https://doi.org/10.6084/m9. figshare.19625166.v1
 - Ferdous, Md.; Ahsan, Sk. Md. Masudul (2022): Surgical Waste Detection Dataset. https://doi.org/10.6084/m9.figshare.19575676.v3

Projects

- A deep neural network for detection and diagnosis of COVID-19 from chest x-ray images.

 Tools: Python
 - https://github.com/Md-Ferdous/Covid-19-detection
 - Protein Secondary Structure Prediction using Convolutional Neural Network. Tools: Python
 - https://github.com/Md-Ferdous/protein-secondary-structure

Skills

- Teaching Two years of teaching experience in programming, data structure, algorithm design, machine learning, computer vision and image processing.
- Training Train students on neural networks, deep learning, natural language processing, bio-inspired computing techniques, programming with C, C++, Python, and MS Office.
- Languages Native or bilingual proficiency in Bangla and professional proficiency in English.
 - - Misc. ■ Academic research, teaching, training, Lateral typesetting and publishing, OriginLab.

Miscellaneous Experience

Awards and Achievements

2018 Chairman's Award

It is given to promising students in Dept. of CSE, Bangabandhu Sheikh Mujibur Rahman Science and Technology University.

Certification

■ Certified ICT division

Skill Development for Mobile Game & Application Project from Ministry of ICT IOS trainer for mobile application development, 200 hours long course

References

Dr. Sk. Md. Masudul Ahsan

Professor

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Signature Md. Ferdous

Dr. Md. Aminul Haque Akhand

Professor

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