MD. FERDOUS WAHID

ASSISTANT PROFESSOR
DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING
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IEB Membership No. M41193

IEEE Membership No. 94608483

EDUCATION

MSc (Engg.) in ECE
Khulna University of Engineering and Technology
Ongoing

BSc (Engg.) in ECE
Khulna University of Engineering and Technology
2008 - 2012

EXPERTISE

- **Programming:** C, Python, Pandas, Numpy, Matplotlib, Tensorflow, Keras, OpenCV, Seaborn, MATLAB.

- **Application Sofware:** Origin, MultiSim, Proteus, CASTEP, MS Office, LATEX.

SCHOLARSHIP RECEIVED

- Technical scholarship (2008-2012), Khulna University of Engineering and Technology (KUET), Khulna.

- Secondary School Certificate Scholarship (2005).

PROFILE

I have over 10 years of teaching experience in the field of engineering, particularly in Electrical and Electronic Engineering. My expertise encompasses the development of internet-of-things based intelligent systems and computer aided medical diagnosis system development using machine learning. I also have distinguished record of publication in academic journals and conferences all over the world. Skilled in working with various machine learning tools and python language.

WORK EXPERIENCE

ASSISTANT PROFESSOR   September 2018 - Present
Department of Electrical and Electronic Engineering
Hajee Mohammad Danesh Science and Technology University
Dinajpur-5200, Bangladesh.

LECTURER   September 2015 - September 2018
Department of Electrical and Electronic Engineering
Hajee Mohammad Danesh Science and Technology University
Dinajpur-5200, Bangladesh.

LECTURER   May 2013 - September 2015
Department of Electronics and Communication Engineering
Sylhet International University
Sylhet-3100, Bangladesh.

RESEARCH PROJECTS

1. DETECTION OF DIABETIC RETINOPATHY FROM RETINAL FUNDUS IMAGES USING MULTILAYERED CONVOLUTIONAL NEURAL NETWORK
Funded by: Institute of Research and Training (IRT), HSTU | FY: 2021-2022
Position: Principle Investigator (PI)

2. HSTU BAYANNODB: A BENCHMARK DATABASE OF ISOLATED BANGLA HANDWRITTEN BASIC CHARACTERS AND NUMERALS
Funded by: Institute of Research and Training (IRT), HSTU | FY: 2020-2021
Position: Principle Investigator (PI)

PUBLICATIONS

- Journal Papers (11)
- Conference Papers (26)

PROFESSIONAL PLATFORM

- **Researchgate Account:**
  https://www.researchgate.net/profile/Md-Wahid-7

- **ORCID ID:**
  https://orcid.org/0009-0003-4840-9948

LANGUAGE

- English - Fluent
- Bangla - Native

PUBLICATIONS

Journal Papers (Q1)

1. M.S. Rahman, A. K. Datta, S. Islam, M. M. Hasan, U. Das, M. A. Sayed, **M.F. Wahid**, A. Ghosh, D. D. Ria, "Insights from computational analysis on novel Lead-Free $FrGeCl_3$ perovskite solar cell using DFT and SCAPS-1D," Inorganic Chemistry Communications, 2024, 113578, ISSN 1387-7003, doi:10.1016/j.inoche.2024.113578.

2. **M. F. Wahid**, M. S. Rahman, N. Ahmed, A. A. Mamun, M. N. Howlader, T. Paul, M. M. R. Tareq, M. S. Rahman and M. M. Rahman "Performance Enhancement of Lead-Free $CsSnI_3$ Perovskite Solar Cell: Design and Simulation With Different Electron Transport Layers," in IEEE Access, vol. 12, pp. 8296-8312, 2024, doi: 10.1109/ACCESS.2024.3352444.

3. N. Sultan, M. Hasan, **M. F. Wahid**, H. Saha and A. Habib, "Cesarean Section Classification Using Machine Learning With Feature Selection, Data Balancing, and Explainability," in IEEE Access, vol. 11, pp. 84487-84499, 2023, doi: 10.1109/ACCESS.2023.3303342.

Conference Papers (2024)

1. M. S. Rahman, A. K. Datta and **M. F. Wahid**, "A Theoretical Study on Non-Leaded Sr_3NCl_3 Perovskite through SCAPS-1D Using DFT-Derived Properties," 2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT), Kamand, India, 2024, pp. 1-6, doi: 10.1109/ICCCNT61001.2024.10725338.

2. M. R. Hoshen, A. Mimi Choity and **M. F. Wahid**, "Design of Transformer Theft Prevention System Utilizing an Integrated Sensor Network and Real-Time Alerting," 2024 8th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC), Kirtipur, Nepal, 2024, pp. 560-565, doi: 10.1109/I-SMAC61858.2024.10714787.

3. M. S. Rahman, U. Das, M. A. K. Mia and **M. F. Wahid**, "Computational Evaluation of Lead Free $MoSe_2$-Based Thin Film Solar Cell for Enhanced Photovoltaic Performance," 2024 International Conference on Advances in Computing, Communication, Electrical, and Smart Systems (iCACCESS), Dhaka, Bangladesh, 2024, pp. 1-6, doi: 10.1109/iCACCESS61735.2024.10499537.

4. U. Das, M. S. Rahman, S. Paul, B. K. Paul and **M. F. Wahid**, "Numerical Investigation of Lead-Free $CH_3NH_3SnI_3$ Perovskite Solar Cell for Photovoltaic Performance Improvement using SCAPS-1D," 2024 International Conference on Advances in Computing, Communication, Electrical, and Smart Systems (iCACCESS), Dhaka, Bangladesh, 2024, pp. 01-06, doi: 10.1109/iCACCESS61735.2024.10499601.