S M Asiful Huda

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IT-7103, 309 Pilmun-daero, Dong-gu, Gwangju, 61452, Republic of Korea

Research Interests

Data-driven decision making, Deep Learning, Reinforcement Learning.

Education

Chosun University, Gwangju, South Korea

- Masters in Computer Engineering, Grade 4.43/4.5 (99.16%) (Feb 2023)
- Advisor: Sangman Moh, Ph.D.
- Thesis: Reinforcement Learning-Based Offloading in Unmanned Aerial Vehicle-Aided Edge Computing Systems

East West University, Dhaka, Bangladesh

- Bachelor of Science in Computer Science and Engineering (Apr 2019)
- Grade: 2.86/4.0 (Last two years CGPA 3.57/4.00)
- Thesis: An Improved Approach for Detection of Diabetic Retinopathy Using Feature Importance and Machine Learning Algorithms

Career Summary

Researcher at Chosun University

College of Dentistry, Chosun University (Apr 2023 - Present)

- Develop a platform for Augmented Reality based Guidance Application for medical procedures.

Graduate Research Assistant at Mobile Computing Lab

Dept. of Computer Engineering, Chosun University (Mar 2021 - Feb 2023)

- Perform research on the offloaded computation in UAV-assisted edge computing systems to enhance system performance.

Junior Software Engineer at Technology and Business Solutions Limited

Software Development Team (Jan 2020 - Feb 2021)

- Develop Web Application using ASP.Net MVC 5, Jquery, Bootstrap 4, JS, MSSQL.
- Database design using MSSQL server.
- Designing validation checks, Adding new features, Fixing bugs and recommendations all over the applications.

[1] Updated July 26, 2023

Publications

Journals

J3. **S M Asiful Huda** and Sangman Moh*, "Deep Reinforcement Learning-Based Computation Offloading in UAV Swarm-Enabled Edge Computing for Surveillance Applications," IEEE Access, Vol. 11, Issue 1, pp. 68269-68285, doi: 10.1109/ACCESS.2023.3292938, July 6, 2023. (SCIE, Q2, IF: 3.9) [Paper]

J2. **Asif Mahmud Raivi**, S M Asiful Huda, Muhammad Morshed Alam and Sangman Moh*, "Drone Routing for Drone-Based Delivery Systems: A Review of Trajectory Planning, Charging, and Security," *Sensors, MDPI*, Vol. 201, pp. 1-26, doi: 10.3390/s23031463, January 2023. (SCIE, Q2, IF: 3.847) [Paper]

J1. **S M Asiful Huda** and Sangman Moh*, "Survey on computation offloading in UAV-Enabled mobile edge computing," *Journal of Network and Computer Applications*, Vol. 201, pp. 1-26, doi: 10.1016/j.jnca.2022.103341, May 2022. (SCIE, Q1, IF: 7.574) [Paper]

Conference Proceedings

C5. **S M Asiful Huda**, Sangman Moh*, "Transfer Learning Algorithms in Unmanned Aerial Vehicle Networks", *The 11th International Conference on Smart Media and Applications (SMA 2022)*,World Resort, Saipan, USA, October 19-20, 2022 [Paper]

C4. **S M Asiful Huda**, M Ehesas Mia, AA Tanvir, Sangman Moh*, "Evaluation of Machine Learning Models for Detecting Network-Based Intrusions", *The 10th International Conference on Smart Media and Applications (SMA 2021)*, Gunsan-si, Jeollabuk-do, Republic of Korea, September 09-11, 2021 [Paper]

C3. AA Tanvir, EM Mahir, **S M Asiful Huda**, Shuvo Barua, "A Hybrid Approach for Identifying Authentic News Using Deep Learning Methods on Popular Twitter Threads", *International Symposium on Artificial Intelligence and Signal Processing (AISP)*, VIT-AP University, Andhra Pradesh, India, January 10-12, 2020 [Paper]

C2. **S M Asiful Huda**, IJ Ila, S Sarder, M Shamsujjoha, MNY Ali, "An improved approach for detection of diabetic retinopathy using feature importance and machine learning algorithms", *2019 7th International Conference on Smart Computing & Communications (ICSCC)*, Curtin University, Miri, Sarawak, Malaysia, June 28-30, 2019 [Paper]

C1. **S M Asiful Huda**, Md Mohiuddin Shoikot, Md Anower Hossain, Ishrat Jahan Ila, "An Effective Machine Learning Approach for Sentiment Analysis on Popular Restaurant Reviews in Bangladesh", *2019 1st International Conference on Artificial Intelligence and Data Sciences (AiDAS)*, Ipoh, Perak, Malaysia, September 19, 2019 [Paper]

Skills

- **Software**: C, C++, C# , Python, Tensorflow, HTML, CSS, JS, Bootstrap, JQuery

Test Scores

- **English**: IELTS (7.0).