TOKI TAHMID INAN

Graduate Research Assistant

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🔗 Google Scholar   in Linkedin

EXPERIENCE

Graduate Research Assistant
George Mason University
📅 August 2021 – Current   📍 Fairfax,VA

Graduate Teaching Assistant
George Mason University
📅 August 2019 – May 2020   📍 Fairfax,VA

Analyst
Humans and Software
📅 January 2019 – July 2019   📍 Banani, Dhaka

Research Assistant
Military Institute of Science and Technology
📅 January 2018 – July 2018   📍 Mirpur, Dhaka

PEER-REVIEWED PUBLICATIONS

- Protein Decoy Generation via Adaptive Stochastic Optimization for Protein Structure Determination AB Zaman, TT Inan, A Shehu - 2020 IEEE International Conference on Bioinformatics …, 2020 (Acceptance rate: 19%)

- Adaptive Stochastic Optimization to Improve Protein Conformation Sampling AB Zaman, TT Inan, K De Jong, A Shehu - IEEE/ACM Transactions on Computational Biology and …, 2021 (IF 3.015)

- Investigating usability of mobile health applications in Bangladesh MN Islam, MM Karim, TT Inan, AKMN Islam - BMC medical informatics and decision making, 2020 (IF 2.796)

- Inan, T. T., Samia, M. B. R., Tulin, I. T., Islam, M. N. (2018). A Decision Support Model to Predict ICU Readmission through Data Mining Approach. In PACIS (p. 218). (Acceptance rate : 23%)

- A Systematic Review on the Use of AI and ML for Fighting the COVID-19 Pandemic MN Islam, TT Inan, S Rafi, SS Akter, IH Sarker… - IEEE Transactions on Artificial Intelligence, 2021

RESEARCH FOCUS

- Intersection of Natural Language Processing and Deep Learning
- Optimization of Multi-dimensional, Non-linear Objective Functions
- Intersection of Optimization Theory and Algorithms and Deep Learning
- Characterization and Visualization of Complex Loss Surfaces for Deep Learning
- Kernel Machines and Deep Neural Network

ONGOING PROJECTS

- F-Measure Optimization for Multi-Class, Imbalanced Emotion Classification Tasks (manuscript under review at ACM SIGIR 2022).
- Hessian-based Optimization for Deep Feed-forward Neural Networks (manuscript under preparation).

EDUCATION

PhD Student
Computer Science (GPA 3.83)
George Mason University
📅 August 2019 – Current

B.Sc.
Computer Science and Engineering (CGPA 3.48)
Military Institute of Science and Technology
📅 January 2014 – December 2017

TEACHING EXPERIENCE

- Software Engineering and System Analysis (Spring 2018)
- Mobile Application Development(Graduate Teaching Assistant)
- Object Oriented Programming(Graduate Teaching Assistant

COMPLETED COURSES

1. CS 583: Analysis of Algorithms
2. CS 747: Deep Learning
3. CS 584: Theory/Application Data Mining
4. CS 600: Theory of Computation
5. CS 687: Advanced Artificial Intelligence
6. CS 896: Stochastic Optimization
7. CS 795: Large Scale Optimization for Machine Learning

SKILLS

Python   C++ & C   Java   PyTorch
BioPython

REFEREE

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