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→ Website

Md Asifur Rahman

Education

Jan/2022 Master of Science in Computer Science,

to Wake Forest University, North Carolina, USA,

Dec/2023 **Dissertation title:** An adaptive background modeling based on modified running Gaussian average **(Expected)** method .

Feb/2012 Bachelor of Science in Computer Science & Engineering,

to Rajshahi University of Engineering & Technology (RUET), Bangladesh,

Oct/2016 CGPA: 3.74 out of 4.00 (Position: 4th out of 56)

Dissertation title: An adaptive background modeling based on modified running Gaussian average method .

Professional Experience

Jan/2022 Graduate Research Assistant,

to Wake Forest University, North Carolina, USA,

Present Supervisor: Dr. Sarra Alqahtani.

May/2022 Test Engineering Intern,

to Qorvo, Greensboro, USA.

Aug/2022

May/2021 Assistant Professor (Currently on study leave),

to Department of Computer Science,

(Presently on Rajshahi University of Engineering & Technology (RUET),

Study Leave) Rajshahi, Bangladesh.

July/2017 Lecturer,

to Department of Computer Science,

May/2021 Rajshahi University of Engineering & Technology (RUET),

Rajshahi, Bangladesh.

Jan/2017 Lecturer,

to Department of Software Engineering,

April/2021 Daffodil International University (DIU),

Dhaka, Bangladesh.

Research Interest

Safe Reinforcement Learning, explainable Safe Reinforcement Learning (XRL), explainable AI (XAI), ML Stability & Fairness

Publications

- 2023 **Md Asifur Rahman**, Sarra Alqahtani "Adversarial Behavioral Exclusion for Safe Reinforcement Learning", *32nd International Joint Conference on Artificial Intelligence (IJCAI 2023)*.
- 2022 Tongtong Liu, Joe McCalmon, Md Asifur Rahman, Cameron Lischke, Talal Halabi, Sarra Alqahtani "Weaponizing Actions in Multi-Agent Reinforcement Learning: Theoretical and Empirical Study on Security and Robustness", International Conference on Principles and Practice of Multi-Agent Systems (PRIMA 2022)

- 2022 Tongtong Liu, Md Asifur Rahman, Joe McCalmon, Sarra Algahtani "Explainability for Safety in Reinforcement Learning", IEEE Symposium on Visualization for Cyber Security (VizSec 2022).
- 2022 Bodrunnessa Badhon, Mir Md. Jahangir Kabir , Md Asifur Rahman, Shuxiang Xu "SQ-FMFO: A Novel Scalarized Multi-Objective Q-Learning Approach for Fuzzy Membership Function Optimization", International Journal of Fuzzy Systems, doi:10.1007/s40815-022-01381-1.
- 2022 Cameron Lischke, Tongtong Liu, Joe McCalmon, Md Asifur Rahman, Talal Halabi, Sarra Alqahtani "LSTM-Based Anomalous Behavior Detection in Multi-Agent Reinforcement Learning", International Conference on Cyber Security and Resilience (CSR) doi:10.1109/CSR54599.2022.9850343.
- 2021 Apu Chandraw Shill, Md Asifur Rahman, "Plant Disease Detection Based on YOLOv3 and YOLOv4",, International Conference on Automation, Control and Mechatronics for Industry 4.0 (ACMI 2021), doi:10.1109/ACMI53878.2021.9528179.
- 2017 Md Asifur Rahman, Boshir Ahmed, Md Ali Hossian, and Md Nazrul Islam Mondal, "An adaptive background modeling based on modified running gaussian average method", International Conference on Electrical, Computer and Communication Engineering (ECCE), doi:10.1109/ECACE.2017.7912961.

Skills

Programming Python, C, C++, Java, Swift 2, Javascript, PHP

Language:

Tech/Tools: PyTorch, Tensorflow, SciPy, Scikit-learn, Numpy, Pandas, Keras, RLlib, Ray Tune, W&B, Open

MPI, Regex, Git, Bootstrap, Django, Laravel, API, AWS, cPanel, LATEX, Matlab, Smartsheet, MS

Office Applications, Jira, Figma, Mural, Balsamiq, Qualtrics

Operating OSx, Linux, Windows, Ubuntu

System:

Database: SQL, MySQL, MongoDB

Projects (asifurrahman1)

Language Skills

Bengali Native Language

English Proficient (Reading, Writing, Speaking, Listening)

Review Activities

2023 PC member, Thirty-Eighth AAAI Conference on Artificial Intelligence (AAAI-24)

Leadership Experience

2020-2021 Thesis supervision of Apu Chandraw Shill

2018 to 2021 Focal Point of the Department of Computer Science & Engineering, RUET.

2018 to 2021 Assistant Director, Mobile Games and Application Development Lab, RUET.

2017 to 2021 Course Advisor of 62 Undergraduate Student.

2017 to 2021 Treasurer, Dhaka Nibash Somiti (Community Organization), RUET, Bangladesh.

Referees

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