Amit Sarker

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INTERESTS

Artificial Intelligence, Multi-agent Coordination and Optimization, Multi-agent Planning and Scheduling, Interaction Between Human and Robot/AI.

EDUCATION

University of Dhaka 2020
Bachelor of Science in Computer Science and Engineering
CGPA Score - 3.77/4.00

EXPERIENCE

TigerIT Bangladesh LTD. Apr. 2020 - Present
Full Stack Software Engineer
Software Quality Assurance (SQA) team
Led By : Al Mamun Chowdhury

Cognitive Agents and Interaction Lab (CAIL) Nov. 2018 - Jan. 2020
Research Student, University of Dhaka
Search-Based algorithm to solve Continuous DCOPs
Supervised by : Dr. Md. Mosaddek Khan

AWARDS

Code Samurai 2019 – Inter University Hackathon Nov. 2019
1st Runner-up
It was a national-level competition jointly organized by BJIT Limited, BJIT Academy and Department of CSE, University of Dhaka.

PUBLICATIONS

1. **Amit Sarker**, Abdullahil Baki Arif, Moumita Choudhury, and Md. Mosaddek Khan. C-CoCoA: A Continuous Cooperative Constraint Approximation Algorithm to Solve Functional DCOPs. In *Proc. of the 19th International Conference on Autonomous Agents and Multiagent Systems* ***(AAMAS 2020)***. (Extended Abstract).
   11th International Workshop on Optimization and Learning in Multiagent Systems ***(OptLearnMAS)*** *@ AAMAS, 2020* (Full Paper).
2. Moumita Choudhury, **Amit Sarker**, Md. Mosaddek Khan, and William Yeoh. A Particle Swarm Inspired Approach for Continuous Distributed Constraint Optimization Problems. *arXiv:2010.10192 (under review), 2020.*
3. **Amit Sarker**, Abdullahil Baki Arif, and Md. Mosaddek Khan. Applying Local Search Algorithms for solving Functional Distributed Constraint Optimization problems (F-DCOPs) in Multi-Agent Systems. *Undergraduate Thesis, Computer Science and Engineering, University of Dhaka, 2019.*

TECHNICAL SKILLS

Programming Languages: Python, C/C++, LaTeX.
Databases: MySQL, Oracle, MongoDB.
Libraries: PyTorch, Pandas, NumPy, Matplotlib.
Web Technologies: JavaScript, Python Flask, HTML/CSS.
Cloud Platform: Google Firebase.

PROJECTS

- My Food Diary — Feb. 2018 - Apr. 2018
  - *An android app implemented in Java for food tracking and health management. A user-friendly way to track daily calorie intake, water consumption and weight.*
  - *Genetic algorithm based automated food suggestions and goal oriented motivations.*

- Track Me — Jul. 2017 - Oct. 2017
  - *An android app implemented in Java for tracking personal vehicles on road by using Google Maps API.*
  - *Clustering based approach to detect anomaly in driving pattern and notify the car owner.*

- GRE_WebApp — Jul. 2018 - Oct. 2018
  - *Flash-card based web application for the students to take preparation for the GRE (Graduate Record Examination).*
  - *The backend is developed using Python (Flask framework), MongoDB and the frontend is developed using HTML, CSS, Javascript.*

- CSEDU Book Club — Feb. 2019 - Apr. 2019
  - *An application for maintaining the book sharing activities of CSEDU Book Club.*
  - *Android app is implemented in Java, Web app is implemented in Python (Flask framework), Firebase database is used for both versions.*

- 29 Card Game — Feb. 2017 - Apr. 2017
  - *A four-player 29 card game that is implemented by using Java Socket Programming.*

- Stick Hero — Jun. 2016 - Aug. 2016
  - *Windows version of the famous stick hero game. Implemented by using C++ and Simple and Fast Multimedia Library (SFML).*

REFERENCE

Dr. Md. Mosaddek Khan
Assistant Professor, Department of Computer Science and Engineering
University of Dhaka
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