MD Jubair Ahmed Sourov

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RESEARCH INTEREST

Machine Learning, Deep Learning, Multi Agent Systems.

EDUCATION

BSc in Robotics and Mechatronics Engineering

University of Dhaka, Dhaka Bangladesh

CGPA 3.69/4.00

2016-2020

CGPA of last 2 years: 3.77

WORKING EXPERIENCE

Independent University Bangladesh

Dhaka, Bangladesh

Research Associate, Center for Computational and Data Sciences

July 2022 - present

Ongoing Projects: Stroke Rehabilitation Project (funded), Particle tracking and Visualization (CERN)

KEY SKILLS

Programming Language Research Tool Python, C, C++, MATLAB PyTorch, Tensorflow, LaTex

PUBLICATIONS

- Classifying Eye-Tracking Data using Saliency Maps; Shafin Rahman; Sejuti Rahman; Omar Shahid; Md. Tahmeed Abdullah; Jubair Ahmed Sourov. (2021, January). Classifying Eye-Tracking Data Using Saliency Maps. In 2020 25th International Conference on Pattern Recognition (ICPR) (pp. 9288-9295). IEEE.
 - https://ieeexplore.ieee.org/abstract/document/9412308
- Simulation of Pattern Formation of Swarm withMinimum Shape Parameters, Md. Tahmeed Abdullah; Md. Jubair Ahmed Sourov; Sejuti Rahman; Sujan Sarker; Joint 9th International Conference on Informatics, Electronics & Vision (ICIEV) and 2020 4th International Conference on Imaging, Vision & Pattern Recognition (icIVPR). IEEE, 2020.

https://ieeexplore.ieee.org/abstract/document/9306556

RESEARCH EXPERIENCE

[Funded]"Developing an automated screening method of autistic children utilizing their visual attention."

- Develop a novel method to classify autistic children from typically developed children using eye-tracking data
- o Collected data from the Institute of Paediatric Neuro disorder and Autism, BSMMU
- Analyzed data and develop a Machine Learning model to accurately classify healthy and children with autism
- Funded from Innovation Grant by the Ministry of ICT, Peoples Republic of Bangladesh

[Funded]"Rexplorer: Swarm robot based rescue operation and exploration "

- Multi agent system of independent robots for collaborative locomotion and exploration.
- Robots driven by microcontroller were coordinated by a central controller.
- Undergraduate final project to develop autonomous flock of swarm robots for exploration.

[Commercial]"Autonomous Air conditioner control system "

- Developed an intelligent system to monitor room and detect human presence.
- When no human is present, it turns off the air condition by wireless method

SELECTED ACADEMIC PROJECTS

Hand Gesture Recognition System

Jan 2019-April 2019

- Collected had gesture data by flex sensors
- Developed a machine learning model for automated detection hand gesture recognition and American Sign Language recognition

VOLUNTARY ACTIVITIES

- Mentor & Organizer, Bangladesh Robot Olympiad (2018-2019).
 - Conducted robotics boot camps and prepared for International Robot Olympiad
 - Organized the national event of Bangladesh Robot Olympiad
- Founding Director, Manager and Content Creator, www.musophia.com (2017-Present).
 - The ultimate platform dedicated to music in Bengali language
- Robotics Instructor, Mindcraft Labs.

CERTIFICATION COURSES

- Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning
- Natural Language Processing with Classification and Vector Spaces
- Convolutional Neural Networks in TensorFlow
- Convolutional Neural Networks
- How Google does Machine Learning
- Neural Networks and Deep Learning
- Structuring Machine Learning Projects
- Natural Language Processing with Classification and Vector Spaces
- Sequence Models

REFERENCES

Dr. Sejuti Rahman

Postdoc(Carnegie Mellon University, USA)

Postdoc (University of Technology Sydney, Australia)

Ph.D. (Australian National University)

Assistant Professor

Department of Robotics and Mechatronics Engineering,

University of Dhaka.

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