Sourin Dey

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Education

University of Wyoming, MS in Computer Science
08/2019 – present
Laramie, United States
Selected Courses: Intro to AI, Deep Reinforcement Learning & Control, Randomness in Computation

Khulna University of Engineering & Technology,
B.Sc in Electrical and Electronic Engineering
04/2014 – 05/2018
Khulna, Bangladesh
Selected Courses: Digital Image Processing, Digital Signal Processing

Research Experience

MS Research, Graduate Research Assistant
08/2019 – present
Laramie, United States

- I am working on a project to optimize the Laser-Induced Graphene Process(LIG) using AI. LIG enables the production of high-quality graphene which has enhanced next-generation nano-circuit design. I am investigating the exploration-exploitation trade-off effect in optimizing the LIG. Besides the investigation, I am collaborating with my lab members at the AIM Center to draw conductive lines of graphene powered by AI.
- Automated Material Processing: I have implemented a fully automated Laser-Induced Graphene process. This has led to no human in the loop and accelerated the manufacturing process. Here is the link to my work.

Undergraduate Thesis
06/2017 – 05/2018
Khulna, Bangladesh

- Formant-based Perceptual Space Classification is focused on detecting the Bengali vowel from continuous speech. High Accuracy by SVM RBF Kernel Classifier is gained. This will enhance the emotional state recognition research in the Bengali language.

Research Interests

- Optimization Techniques
- Reinforcement Learning
- Deep Learning & Neural Networks
- Human Robot Interaction
- Computer Vision

Skills

Coding Skills
- *Python (Scikit-Learn, PyTorch, Keras, PyGame), R.*
- *C++, C, Android Studio with Java Programming.*

Operating System
Linux, Windows, Android

Version Control
Git

Typesetting
Microsoft Office, LaTex

Publications

Optimizing Laser-Induced Graphene Production (under review), IEEE Computational Intelligence Magazine
Authors: Lars Kotthoff, Sourin Dey, Vivek Jain, Alexander Tyrrell, Hud Wahab, Patrick Johnson