Mohammad Samin Yasar

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– May 2022 [Expected] Jan 2012 – Apr 2015
Jan 2012 – Apr 2015
Jan 2012 – Apr 2015
Aug 2017 – Present
Jan 2019 – Present
Sep 2015 – Aug 2017
May 2013 – Aug 2015 heory courses
n Robotic Surgery," <i>To</i> Atlanta, Georgia, USA, ire Traffic System and tions," <i>IEEE TENCON</i> ntrollers using artificial posium, Madrid, Spain
Sep 2018
2012 – 2015
Apr 2012
Jan 2012– Apr 2015
Apr 2010
t .

SKILLS & EXPERTISE

Machine Learning

- Tensorflow
- Scikit learn
- Pycharm

Robotics

- ROS
- Gazebo

Computer Vision/Image Processing

- OpenCV
- Matlab

Computer Skills

- Programming Languages: Python, Java, C, C++, VHDL Framework: LLVM, Pin
- Others: UNIX/Linux, BASH, Microsoft Word, Microsoft Excel, Microsoft PowerPoint, LATEX

COURSES

- Deep Learning for Visual Recognition
- Statistical Learning and Graph Models
- Digital Image Processing
- Software Security
- Dependable Computing
- Computer Architecture and Design
- Advanced Embedded Systems
- Machine Learning

SELECTED PROJECTS

- Detection and Tracking of subject based on a template
 - Trained a discriminative classifier to detect between the subject and background based on HOG Features. Used sliding window approach to identify the object in other parts of the video
 - Code availability: https://github.com/MohammadYasar/ObjectTracking
- Intrusion Detection System for tele-operated surgery
 - Designing the pipeline for detecting the presence of an intruder in the robot network. The system is trained to distinguish between normal tele-operation and abnormal behavior by using leveraging on previously recorded data patterns Code availability: https://github.com/MohammadYasar/SWSecurity/
- Credit Card Fraud Detection
 - · Using ensemble learning techniques to detect fraudulent transactions from a largely imbalanced dataset
 - Code availability: https://github.com/MohammadYasar/MachineLearningGenericInterface

REVIEWER EXTERNAL REVIEWER

TENCON

Jul 2016

- DSN
- ICCPS

Dec 2017, Dec 2018

Nov 2018

LANGUAGES

- Bengali: Native language.
- English: Fluent (speaking, reading, writing).
- French: Speaking and Writing

INTERESTS

Soccer, Video Games, Reading, Traveling

REFERENCES

Professor Homa Alemzadeh

Assistant Professor

Department of Electrical and Computer Engineering, Department of Computer Science

University of Virginia

Olsson Hall 259, Charlottesville, Virginia 22904, USA

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Professor David Evans

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