

Md Ashraful Alam Milton

RESEARCH INTERESTS

Computer Vision, Object Detection, Scene Understanding, Intelligent Video Surveillance, Deep Learning

RESEARCH EXPERIENCE

Computer Vision Engineer, A Video Surveillance Start Up, Dhaka, Bangladesh August, 2018 – Present

Topic: Working on Person Detection, Recognition and Re-Identification in Video Surveillance System.

Computer Vision Intern, ADAS GROUP, CVC, <http://www.cvc.uab.es>, UAB, Spain July, 2015 - September, 2015

Topic: Pedestrian Detection System Using Deep Learning and Theano

Supervisors: Prof. Dr. Antonio M. Lopez (Dept. of Computer Science, UAB) & Dr. David Vazquez (Dept. of Computer Science, UAB)

Participation in Computer Vision Competitions

1. https://github.com/miltonbd/ai_city_challenge, ongoing (Person re-identification)
2. https://github.com/miltonbd/mcs_2018_adversarial_attack, 14 among 129 teams.
3. https://github.com/miltonbd/ECCV_2018_pedestrian_detection_challenge, 21 among 168 teams.
4. https://github.com/miltonbd/ISIC_2018_classification

PROFILES

Github: <https://github.com/miltonbd/>

Google Scholar: https://scholar.google.com/citations?user=-e_v6BsAAAAJ&hl=en

Researchgate: https://www.researchgate.net/profile/Md_Ashraful_Alam_Milton

PROJECTS

Deep Learning Projects: I worked on intelligent video surveillance system which employs person detection, de-blurring and super resolution, person recognition and re-identification using various state-of-the art algorithms. I utilized RetinaNet, SSD, YOLO algorithms for object detection and SENet, Pnas, InceptionV4, ResNet for classification and PSPNet, DeepLab, UNet for semantic segmentation.

Kinect based object dimension measurement : This is a prototype for a start up in California, USA for 3D object detection, its area and volume measurement. It was implemented in PCL , QT, C++ , Openni .

TECHNICAL SKILLS

Research Skills: Deep Neural Networks Architectures, Neural Networks training & Optimization.

Programming: Python, C/C++, Java

Research Frameworks: PyTorch, Tensorflow, OpenCV, Numpy, Scipy, PCL, QT , Eigen.

Software Development: Android, IOS, PHP , MySQL, JavaScript, AngularJS, Big Data

REFEREED JOURNAL

1. **Md Ashraful Alam Milton, Ainul Anam Shahjamal Khan ;** “Web Based Remote

PUBLICATIONS

Exploration and Control System Using Android Mobile Phone”; DOI: 10.1109/ICIEV.2012.6317481, International Conference on Informatics, Electronics & Vision (ICIEV), 2012 , Dhaka – **Published.**

2. Evaluation of Momentum Diverse Input Iterative Fast Gradient Sign Method (MDI2-FGSM) Based Attack Method on MCS 2018 Adversarial Attacks on Black Box Face Recognition System, <https://arxiv.org/abs/1806.08970>
3. Towards Pedestrian Detection Using RetinaNet in ECCV 2018 Wider Pedestrian Detection Challenge, <https://arxiv.org/abs/1902.01031>
4. Automated Skin Lesion Classification Using Ensemble of Deep Neural Networks in ISIC 2018: Skin Lesion Analysis Towards Melanoma Detection Challenge, <https://arxiv.org/abs/1901.10802>

Research Engineer, Computer Vision August 2018– Present
Video Surveillance Start Up, **Dhaka, Bangladesh**

PROFESSIONAL
EXPERIENCE

Software Engineer, Mobile Application (IOS & Android) November 2017– July, 2018
Velometric Inc, **Dhaka, Bangladesh**

Android and PHP Engineer January 2014 – November 2014
Oktopos Solutions GmbH, Hamburg, Germany

Software Engineer (Web & Mobile) App) July 2010 – December 2013
Remote Freelance software developer and Team Leader for US IT companies.

EDUCATION

1. **Bsc in Electrical & Electronic Engineering, 3.39 Out of 4**, Chittagong University of Engineering & Technology, Chittagong, Bangladesh
2. Upto **Msc in Computer Engineering** (60 credits completed, left due to personal problem), Autonomous University of Barcelona (UAB), Barcelona, Spain

CONTACTS

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LANGUAGE
SKILLS

English (GRE: 304 , TOEFL: 100), Spanish & German (Basic)

REFERENCES

Dr. David Vazquez

Assistant Professor, Department of Computer Science, Autonomous University of Barcelona (UAB), Bellaterra, Barcelona, Spain

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Email: dvazquez@cvc.uab.es
<http://adas.cvc.uab.es/dvazquez>

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