Alexander Sopov

Slogan-like summary of expertise, for example "Imaging Processing Specialist"

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Summary

Well lets not waste any time writing anything smart in here.

Besides, we all now what a silly little man I am writing out complete nonsense and sort of getting paid to do it.

Oh well, lets finish this up - I can't allow people to pay for this word poop.

P.s. If you're reading this and wondering wtf, please realise this is just placeholding for work-purpose

Specialities

Industries

- Telecom
- or
- whatever industries youre working in

Tools

- Programming languages
- Applications, or
- Whatever tools you're familiar with

Competencies

- Image and video processing
- Machine learning and neural network
- Or whatever your competencies are

Education

2010 – 2015   PhD in Some Program, At some school, In what city

2013   Internship Supervision, KTH Royal Institute of Technology

2011   Master Supervision, KTH Royal Institute of Technology

Employers

2016 –   Qamcom Research & Technology Stockholm AB

2010 – 2015   KTH Royal Institute of Technology

Assignments

2016: Traffic Sign Recognition, Zumbri

Develop image processing algorithms for detection and analysis of traffic signs. The recognition of signs is achieved by using both supervised and unsupervised machine learning algorithms.

The work included:

- Recognition of about 500 different traffic signs in Sweden
- Detection and classification of symbol-based traffic signs.
- Detection and analysis of text-based traffic signs, including character and symbol recognition in the context of traffic signs.

Tools used:

- Python – OpenCV, Scikit-learn

2016: Microscopic Image Analysis, Persomics

Develop image processing algorithms for analyzing microscopic images.

The work included:

- Read and write high resolution images in different channels and formats in a memory-efficient way
- Develop algorithms for object detection in microscopic images

Tools used:

- Python – OpenCV

2016: Deep Learning Neural Network, Qamcom Research and Technology

Study the pattern of vehicle dynamics from sensor signals by using deep learning neural networks. The pattern obtained by machine learning is used for vehicle state classification and dynamic estimation.

The work included:

- Study the physical/signal model of vehicle dynamics
- Develop sensor fusion algorithms for vehicle sensors
- Construct and training of deep learning neural networks
- Develop algorithms for vehicle state classification and dynamic estimation by using deep learning neural networks

Tools used:

- Python – Tensorflow, Scikit-learn, Pandas
- C/C++ - Caffe
- Matlab