Sabri Bolkar

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Education

Delft University of Technology — Delft, Netherlands
PhD, Template Free Data Fusion for Single Molecule Localization Microscopy — *2018 – 2022 (Expected)*

Norwegian University of Science and Technology — Gjovik, Norway
MSc in Applied Computer Science — *2016 – 2018*
Erasmus Mundus Joint Master Degree COSI: https://www.ntnu.edu/studies/macs-cosi

Middle East Technical University — Ankara, Turkey
BSc in Electrical and Electronics Engineering — *2012 – 2016*

Research Interests

Computer Vision
Optimization and Machine Learning
Super-resolution Microscopy
Neuroscience

Publications

S. Bolkar, *Soft Segmentation of Viral Labeled Neurons*, MSc Thesis, KU Leuven (Neuro-electronics Flanders) and Norwegian University of Science and Technology, 2018

S. Bolkar, C. Wang, F. Cheikh, S. Yildirim *Deep Smoke Removal From Minimally Invasive Surgery Videos,* in Proceedings of the IEEE International Conference on Image Processing (ICIP), 2018

Honors & Awards

Neuro-electronics Research Flanders MSc Thesis Scholarship	Spring 2018
EU Mundus Master Joint Degree Full Scholarship	2016 - 2018
Best Research Poster Award in METU Undergraduate Research Fair	May 2015
Erasmus Summer Internship Grant	Summer 2014
Scholarship of METU Alumni Association	2014 - 2016
Scholarship of Prime Ministry of Turkey	2010 - 2015
Ranked at the top 0.5% in National University Entrance Examination	2010

Experience

Neuro-electronics Research Flanders, KU Leuven & IMEC — Leuven, Belgium
MSc Thesis Researcher — *January - July 2018*

Soft Segmentation of Viral Labeled Neurons. Ganglion cells have complex structures with transparent neurites, and dendritic arborization is crucial for identification. The project aims to separate and reconstruct occluded individual neurons from viral labelled confocal microscopy images
Advisor: Karl Farrow

Gestalt-ReVision, KU Leuven — Leuven, Belgium
Visiting Scholar — *July - August 2017*

Mid-level Image Memorability. The project seeks to understand memorability of images from perceptual grouping point of view by using deep neural networks
Advisor: Johan Wagemans

Mikro-Tasarm Electronics Inc. — Ankara, Turkey
IC Engineering Intern — *August - September 2015*

Digital Circuit Design. The project is mainly on developing FPGA prototypes of a digital oscilloscope and a tunable clock management circuit by using Verilog

KocSistem Inc. Ankara, Turkey

Computer Networking Intern *June - August 2015*

Network Design. The project aims to design and simulate network architecture of a company with multiple branches on hardware and software

Technical University of Denmark Lyngby, Denmark

Neuroengineering Intern *June - September 2014*

Neurorehabilitation. It is a summer research project that targets development of feature extraction algorithms from EEG signals to be used in a brain computer interface for rehabilitation of ADHD
Advisor: Sadasivan Puthusserypady

Skills

Language: Turkish (Native), English (IELTS-7.5/9), Bokmal (Elem.)

Programming: Matlab, Python, C/C++, R, Verilog, Assembly-68HC11, LaTeX

Libraries: Caffe, Keras, OpenCV, LIBSVM/LIBLINEAR, Scipy, Scikit-Learn, EEGLAB

Computer Programs: Blender, AutoCAD, Cadence Virtuoso, Agilent VEE, Altera Quartus, Xilinx ISE, LTspice, Office Suites, Adobe Photoshop and Illustrator