Sabri Bolkar

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Education

Delft University of Technology — Delft, Netherlands
PhD — *2018 –*

Norwegian University of Science and Technology — Gjovik, Norway
MSc in Applied Computer Science — *2016 – 2018*

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

Research Interests

Computer Vision
Machine Learning
Optimization

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

S. Bolkar & O. Ozcelik, *Bio-Spectral Imaging,* Research Report, 2015

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

Delft University of Techbology — Delft, Netherlands
PhD Researcher — *September 2018 -*

3d Point Set Registration. Registration of under-labelled localization microscopy point data by using optimization and machine learning

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

Soft Segmentation of Viral Labeled Neurons. Retinal ganglion cells have complex structures and dendritic arborization is crucial for their identification. The project aims to separate and reconstruct occluded individual neurons from viral labelled confocal microscopy image stacks
Advisor: Karl Farrow

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

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 (ele.)
Programming: Matlab (adv.), Python (adv.), C/C++ (int.), R (int.), Verilog (ele.), Assembly-68HC11, LaTeX
Libraries: Caffe, Keras, OpenCV, LIBSVM/LIBLINEAR, Scipy, Scikit-Learn, EEGLAB
Computer Programs: Cadence Virtuoso, Agilent VEE, Altera Quartus, Xilinx ISE, LTspice, Office Suites, Adobe Photoshop and Illustrator

Activities & Hobbies

Columnist in the magazine Morsk
Amateur Artist (Drawing)
Volunteer for children with leukemia, autism, Down syndrome and CP at the Lodos (2012-2016)
Professional Basketball Player (2008-2016)