Curriculum Vitae

Okan KÖPÜKLÜ

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 Google scholar
 Github

Personal Data

Birthday/Place	26.05.1990 in Turkey
Address	Munich - Germany

Education



Technical University Munich, Germany Ph.D. in Electrical and Computer Engineering Supervised by Prof. Gerhard Rigoll

- Video Action/Activity Recognition
- Hand Gesture Recognition
- Spatiotemporal Action Localization



Technical University Munich, Germany M.Sc. in Communications Engineering - Average 3.7 / 4.0 *Graduation with high distinction - Average 3.7 / 4.0*

Sep 10 – Jun 14

Sep 14 – Feb 17

Nov 17 – Present



Bogazici University, Istanbul, Turkey	
B.Sc. in Electrical and Electronics Engineering	
Graduation with high honor degree - Average 3.7 / 4.0	

Working Experience

RYSTA	Software Developer at Rysta GmbH, Munich, Germany Pattern recognition on resource-constrained IoT devices	Mar 17 - Nov 17
	Master's Thesis at BMW Group, Munich, Germany Improved Worst-Case Response Time (WCRT) Calculation and Input Modeling of Event-Driven Activations for In-Car Com. Networks	Jun 16 - Jan 17
(intel)	Working Student at Intel IoT Ignition Lab, Munich, Germany Smart Grid Load Forecast Analysis with Machine Learning Models POCs with Intel development boards and gateways Application Development with C, C++ APIs on IoTivity	Jan 15 - Jun 16
(intel)	Working Student at Intel IoT Ignition Lab, Istanbul, Turkey Architecture Design and implementation of IoT Demos Embedded Software Applications with Intel Edison and Gelileo Boards	Apr 14 - Oct 14



Teaching

Pattern Recognition : Master's Level - 2019, 2020

Selected Publications

- Driver Anomaly Detection: A Dataset and Contrastive Learning Approach
 O Köpüklü, Jiapeng Zheng, Hang Xu, Gerhard Rigoll
 Preprint arXiv: 2009.14660, 2020
- DriverMHG: A Multi-Modal Dataset for Dynamic Recognition of Driver Micro Hand Gestures and a Real-Time Recognition Framework
 Okan Köpüklü, Thomas Ledwon, Yao Rong, Neslihan Kose, Gerhard Rigoll
 International Conference on Automatic Face & Gesture Recognition, FG, 2020
- You Only Watch Once: A Unified CNN Architecture for Real-Time Spatiotemporal Action Localization Okan Köpüklü, Xiangyu Wei, Gerhard Rigoll Preprint arXiv: 1911.06644, 2019
- Real-time Hand Gesture Detection and Classification Using Convolutional Neural Networks Okan Köpüklü, Ahmet Gunduz, Neslihan Kose, Gerhard Rigoll
 Best student paper award International Conference on Automatic Face & Gesture Recognition, FG, 2019
- Resource Efficient 3D Convolutional Neural Networks
 Okan Köpüklü, Neslihan Kose, Ahmet Gunduz, Gerhard Rigoll Neural Architectures Workshop, ICCVW, 2019
- Talking with Your Hands: Scaling Hand Gestures and Recognition with CNNs Okan Köpüklü, Yao Rong, Gerhard Rigoll Workshop on Observing and Understanding Hands in Action, ICCVW, 2019
- Convolutional Neural Networks with Layer Reuse
 Okan Köpüklü, Maryam Babaee, Stefan Hörmann, Gerhard Rigoll
 International Conference on Image Processing (ICIP), ICIP, 2019
- Motion Fused Frames: Data Level Fusion Strategy for Hand Gesture Recognition
 Okan Köpüklü, Yao Rong, Gerhard Rigoll
 Workshop on Analysis and Modeling of Faces and Gestures, CVPRW, 2018

Achievements

- Best student paper award FG 2019
- Several degrees in Triathlon contests between 2008 2011 in Turkey
- Several oil painting exhibitions between 2004 2008

Skills & Language

Programming	: Python, C/C++, Matlab
Deep Learning Platforms	: PyTorch, Torch, TensorFlow
Libraries	: Numpy, Scipy, Scikit-Learn, OpenCV, Intel RealSense SDK, Kinect SDK
Languages	: Turkish (native), English (fluent), German (intermediate)