Curriculum Vitae

Okan KÖPÜKLÜ

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Personal Data

Birthday/Place	26.05.1990 in Çorum, Turkey
Address	Kleinstraße 37, 81379, Munich - Germany

Education

Technical University Munich, Germany   **Nov 17 – Present**
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   **Sep 14 – Feb 17**
M.Sc. in Communications Engineering - Average 3.7 / 4.0
Graduation with high distinction - Average 3.7 / 4.0

Bogazici University, Istanbul, Turkey   **Sep 10 – Jun 14**
B.Sc. in Electrical and Electronics Engineering
Graduation with high honor degree - Average 3.7 / 4.0

Working Experience

Software Developer at Rysta GmbH, Munich, Germany   **Mar 17 - Nov 17**
Pattern recognition on resource-constrained IoT devices

Master's Thesis at BMW Group, Munich, Germany   **Jun 16 - Jan 17**
Improved Worst-Case Response Time (WCRT) Calculation and Input
Modeling of Event-Driven Activations for In-Car Com. Networks

Working Student at Intel IoT Ignition Lab, Munich, Germany   **Jan 15 - Jun 16**
Smart Grid Load Forecast Analysis with Machine Learning Models
POCs with Intel development boards and gateways
Application Development with C, C++ APIs on IoTivity

Working Student at Intel IoT Ignition Lab, Istanbul, Turkey   **Apr 14 - Oct 14**
Architecture Design and implementation of IoT Demos
Embedded Software Applications with Intel Edison and Gelileo Boards

Teaching

Pattern Recognition **:** Master's Level - 2019, 2020

Selected Publications

- **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)