Kaan KARAMAN

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Personal Page / Scholar / Linkedin / Twitter

EDUCATION

Master of Science 2017 - 2021
Middle East Technical University, Ankara, Turkey
Electrical and Electronics Engineering Department
Specialized in Signal Processing
CGPA: 3.79 / 4.00
Thesis: Deep Metric Learning with Distance Sensitive Entangled Triplet Losses
Advisor: Prof. Dr. A. Aydin Alatan

Bachelor of Science 2012 - 2017
Middle East Technical University, Ankara, Turkey
Electrical and Electronics Engineering Department
Specialized in Bio-medical Engineering and Imaging
CGPA: 3.81 / 4.00 (Ranked 9^{th} among 375 senior level students)

Double Major 2013 - 2017
Middle East Technical University, Ankara, Turkey
Physics Department
Specialized in Mathematical Physics and Relativity
CGPA: 3.67 / 4.00

Preparatory School 2011 - 2012
Middle East Technical University, Ankara, Turkey

High School 2007 - 2011
Adem Tolunay Anatolian High School, Antalya, Turkey
Specialized in Mathematics and Science
CGPA: 86.61 / 100.00

HONORS

Dean's High Honor List ($\times 8$)
Semester GPA $> 3.5/4.0$

Dean's Honor List ($\times 1$)
$3.0/4.0 <$ Semester GPA $< 3.5/4.0$

IEEE Signal Processing Society Travel Grant
In 26th IEEE International Conference on Image Processing (ICIP), 2019

Graduate Scholarship
The Scientific and Technological Research Council of Turkey
(TUBITAK)

PUBLICATIONS

Karaman, K., & Alatan, A. A. (2021, September). Metu loss: metric learning with entangled triplet unified loss. In 28th IEEE International Conference on Image Processing (ICIP). IEEE. **(submitted)**

Akkaya I. B., & **Karaman, K.** (2020, May). A robust technique for real-time face verification with a generative network. In Real-Time Image Processing and Deep Learning (Vol. 11401, p. 1140107). International Society for Optics and Photonics (SPIE).

Karaman, K., Akkaya I. B., Solmaz B., & Alatan A. A. (2020, October). A face recognition technique by representative learning with the quadruplets. In 28th Signal Processing and Communications Applications Conference (SIU). IEEE.

Karaman, K., Akkaya I. B., & Alatan A. A. (2020, October). Metric learning with quadruplets on non-hierarchical labeled datasets. In 28th Signal Processing and Communications Applications Conference (SIU). IEEE.

Karaman, K., Gundogdu, E., Koc, A., & Alatan, A. A. (2019, September). Quadruplet selection methods for deep embedding learning. In 26th IEEE International Conference on Image Processing (ICIP). IEEE.

Karaman, K., & Akkaya I. B. (2019, October). Semi-supervised adversarial training of a lightweight neural network for visual recognition. In Counterterrorism, Crime Fighting, Forensics, and Surveillance Technologies II (Vol. 11166, p. 111660O). International Society for Optics and Photonics (SPIE).

Solmaz, B., & **Karaman, K.** (2019, April). Modeling human activities via long short term memory networks. In 27th Signal Processing and Communications Applications Conference (SIU). IEEE.

Karaman, K., Koc, A., & Alatan, A. A. (2018, October). Face recognition based on embedding learning. In Counterterrorism, Crime Fighting, Forensics, and Surveillance Technologies II (Vol. 10802, p. 108020J). International Society for Optics and Photonics (SPIE).

Karaman, K., Gundogdu, E., Koc, A., & Alatan, A. A. (2018, May). A method for quadruplet sample selection in deep feature learning. In 26th Signal Processing and Communications Applications Conference (SIU). IEEE.

Solmaz, B., Gundogdu, E., **Karaman, K.**, Yucesoy, V., & Koc, A. (2017, October). Fine-grained visual marine vessel classification for coastal surveillance and defense applications. In Electro-Optical Remote Sensing XI (Vol. 10434, p. 104340A). International Society for Optics and Photonics (SPIE).

WORK EXPERIENCE

Research Engineer — July 2017 - Present
ASELSAN Research Center

Internship — August 2016 - September 2016
Anketek

Internship — June 2015 - July 2015
ASELSAN

EXTRA-CURRICULAR ACTIVITIES

METU Information Office for Newcomers 2013-2017
Volunteer

CERN, a 2-day technical tour August 2013
Accompanied by Prof. Dr. Bilge Demirkoz

METU Gastronomy Society 2013-2014
Founder Member
Organized Society Events

METU Debate Society 2011-2013
Quarter-finalist of Bogazici University Debate Tournament (January 2011)
Organized Society Events

LANGUAGE

Turkish: Native
English: Advanced

SKILLS

Operating Systems
Ubuntu, Windows.

Package Programs
Microsoft Office Programs, LaTeX, PyCharm, LTspice, Key Creator, Agilent VEE, LabVIEW, Xilinx VIVADO, Altera QUARTUS.

Programming Languages
Python, MATLAB, C++, Verilog.

Libraries in Python
PyTorch, OpenCV, Numpy, Matplotlib, Scikit-Learn.

REFERENCES

Available upon request