

Kaan KARAMAN

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| 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 Biomedical 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 ($\times 1$) $3.0/4.0 < \text{Semester GPA} < 3.5/4.0$ |
| | 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)**
- Kayabasi, A., **Karaman, K.**, & Akkaya, I. B. (2021, April). Comparison of distance metric learning methods against label noise for fine-grained recognition. In Automatic Target Recognition XXXI (Vol. 11729, p. 117290F). International Society for Optics and Photonics (SPIE).
- 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
ASELSAN Research Center

July 2017 - Present

Internship

August 2016 - September 2016

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| | Anketek | |
| | Internship ASELSAN | June 2015 - July 2015 |
| EXTRA- CURRICULAR ACTIVITIES | METU Information Office for Newcomers Volunteer | 2013-2017 |
| | CERN, a 2-day technical tour Accompanied by Prof. Dr. Bilge Demirköz | August 2013 |
| | METU Gastronomy Society Founder Member Organized Society Events | 2013-2014 |
| | METU Debate Society Quarter-finalist of Bogazici University Debate Tournament (January 2011) Organized Society Events | 2011-2013 |
| LANGUAGE | Turkish: Native English: Advanced | |
| SKILLS | Operating Systems Ubuntu, Windows. Package Programs Microsoft Office Programs, L ^A T _E X, 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 | |