

## Kaan KARAMAN

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Personal Page / Scholar / Linkedin / Twitter

<b>EDUCATION</b>	<b>Master of Science</b> 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
	<b>Bachelor of Science</b> 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 <sup>th</sup> among 375 senior level students)
	<b>Double Major</b> 2013 - 2017 Middle East Technical University, Ankara, Turkey Physics Department Specialized in Mathematical Physics and Relativity CGPA: 3.67 / 4.00
	<b>Preparatory School</b> 2011 - 2012 Middle East Technical University, Ankara, Turkey
	<b>High School</b> 2007 - 2011 Adem Tolunay Anatolian High School, Ankara, Turkey Specialized in Mathematics and Science CGPA: 86.61 / 100.00
<b>HONORS</b>	<b>Dean's High Honor List</b> ( $\times 8$ ) Semester GPA $> 3.5/4.0$
	<b>Dean's Honor List</b> ( $\times 1$ ) $3.0/4.0 < \text{Semester GPA} < 3.5/4.0$
	<b>IEEE Signal Processing Society Travel Grant</b> In 26th IEEE International Conference on Image Processing (ICIP), 2019
	<b>Graduate Scholarship</b> 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).

<b>WORK EXPERIENCE</b>	<b>Research Engineer</b>	July 2017 - Present
	ASELSAN Research Center	
	<b>Internship</b>	August 2016 - September 2016
	Anketek	
	<b>Internship</b>	June 2015 - July 2015
	ASELSAN	

<b>EXTRA-CURRICULAR ACTIVITIES</b>	<b>METU Information Office for Newcomers</b> Volunteer	2013-2017
	<b>CERN, a 2-day technical tour</b> Accompanied by Prof. Dr. Bilge Demirköz	August 2013
	<b>METU Gastronomy Society</b> Founder Member Organized Society Events	2013-2014
	<b>METU Debate Society</b> Quarter-finalist of Bogazici University Debate Tournament (January 2011) Organized Society Events	2011-2013
<b>LANGUAGE</b>	Turkish: Native English: Advanced	
<b>SKILLS</b>	<b>Operating Systems</b> Ubuntu, Windows.  <b>Package Programs</b> Microsoft Office Programs, L <sup>A</sup> T <sub>E</sub> X, PyCharm, LTspice, Key Creator, Agilent VEE, LabVIEW, Xilinx VIVADO, Altera QUARTUS.  <b>Programming Languages</b> Python, MATLAB, C++, Verilog.  <b>Libraries in Python</b> PyTorch, OpenCV, Numpy, Matplotlib, Scikit-Learn.	
<b>REFERENCES</b>	Available upon request	