## Ahmet Karaküçük

Contact Information	Bursa Uludag University, Gemlik Voc. School Department of Electricity & Energy Studies Gemlik Sunğipek Asım Kocabıyık Campus, 16600, Gemlik, Bursa, Turkey	email: akarakucuk{at}uludag.edu.tr phone: +90 (224) 294 2677 (ext. 62230) fax: +90 (224) 512 34 93
	Bursa Uludag University, Faculty of Engineering Department of Electronic Engineering Gorukle Campus, 16059, Nilüfer, Bursa, Turkey	email: akarakucuk{at}uludag.edu.tr phone: +90 (224) 294 0646 web: https://avesis.uludag.edu.tr/akarakucuk
Research Interests	Image Processing, Multimedia Forensics, Computer Vision, Pattern Recognition, Signal Processing, Circuits and Systems.	
Education	<b>Uludag University</b> , Turkey Ph.D., Electrical & Electronic Engineering Dissertation: "Advanced Methods for Source Auth Advisor: Ahmet E. Dirik	July 2021 entication and Attribution in Digital Forensics"
	<b>Uludag University</b> , Turkey M.S., Electronic Engineering Thesis: Estimation of signal amplitude on binary of Advisor: Erdogan Dilaveroglu	September 2012 lata communication with Laplace noise
	<b>Uludag University</b> , Turkey B.A., Electronic Engineering	September 2009
Academic Experience	<b>Uludag University</b> , Bursa, Turkey Lecturer & Assistant Director in Gemlik Voc. Sch.	August 2021 - present
	<b>New York University</b> , Abu Dhabi, UAE Research Supervisor	February 2016 - July 2016
	<b>New York University</b> , Abu Dhabi, UAE Visiting Research Assistant	July 2014 - September 2014
	<b>Uludag University</b> , Bursa, Turkey Research & Teaching Assistant in Dept. of Electro	September 2009 - July 2019 nic Engineering
Courses Taught (2019 - present)	<ul> <li>R Programming with Machine Learning Application.</li> <li>Computer Science Principles (AP)</li> <li>Autonomous and Driver Assistant Systems</li> <li>Wavelet Transformation and Multiscale Analysis</li> <li>Logical Circuits</li> <li>DC Circuit Analysis</li> <li>AC Circuit Analysis</li> <li>Transformers and DC Machines</li> <li>Automotive Electronics</li> <li>Fundamentals of Electrical Circuits</li> <li>Fundamentals of Electrical and Electronic Circuits</li> </ul>	is

Assisted Courses (2009 - 2019)	<ul> <li>Computer Tools for Electrical-Electronic Engineers</li> <li>Introduction to Computer Programming</li> <li>Computer Programming Laboratory</li> <li>Digital Signal Processing Laboratory</li> <li>Signals and Systems</li> <li>Engineering Mathematics</li> <li>Engineering Probability</li> </ul>	
Projects	<ul> <li>A New PRNU-Based Method for Source Camera Identification in Panoramic Images, The Scientific and Technological Research Council (TÜBİTAK) of Turkiye, no. 113E631 2024 Q2-2024 Q4 (Principal Investigator)</li> <li>Media Forensics, DARPA and Air Force Research Laboratory (AFRL) of USA, no. FA8750-16-2-0173 2016-2017 (Consultant)</li> <li>Image Source Anonymization, The Scientific and Technological Research Council of Turkey, no. 113E092, 2012-2013 (Researcher)</li> </ul>	
Patent Applications	<ul> <li>"Source Camera Sensor Fingerprint Generation Method from Panorama Photos" (TPE &amp; PCT 2021/018005)</li> <li>"Anonymization system and method for digital images" (US Patent 10,297,011)</li> </ul>	
Selected Publications	<ul> <li>A. Karaküçük, A. E. Dirik, "PRNU based source camera attribution for image sets anonymized with patch-match algorithm" 2019.</li> <li>A. Karaküçük, A. E. Dirik, Hüsrev T. Sencar, Nasir D. Memon, "Recent advances in counter PRNU based source attribution and beyond", Proc. SPIE 9409 Media Watermarking, Security and Forensics 2015.</li> <li>A. Karaküçük, A. E. Dirik, "Adaptive photo-response non-uniformity noise removal against image source attribution", Digital Investigations, Vol. 12, p. 66-76, 2015.</li> <li>A. E. Dirik, A. Karaküçük, "Forensic use of photo response non-uniformity of imaging sensors and a counter method", Optics Express, Vol. 22, No. 1, p. 470-481, 2014.</li> </ul>	
Honors and Awards	<ul> <li>2nd prize winner of TET R&amp;D Project Brokerage Event 3, ICT Category, Istanbul, Mar. 2014</li> <li>2nd prize winner of Uludag University IV. Dissemination and R&amp;D Event, Research Poster Competition, Bursa Dec. 2014</li> </ul>	
LANGUAGES	• English: Speaking: Good, Reading: Very Good, Writing: Good	