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Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: A-1996-2017

ScopusID: 56008029100

Yoksis Researcher ID: 33096

Education Information

Doctorate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, FEN BİLİMLERİ ENSTİTÜSÜ, Turkey 2012 - 2021

Postgraduate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, FEN BİLİMLERİ ENSTİTÜSÜ, Turkey 2009 - 2012

Undergraduate, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, Electronic Engineering, Turkey 2004 - 2009

Foreign Languages

English, C2 Mastery

Certificates, Courses and Trainings

IT, NVIDIA DLI Certificate – Applications of AI for Anomaly Detection, Nvidia Deep Learning Institute, 2022

IT, NVIDIA DLI Certificate – Fundamentals of Deep Learning, NVIDIA Deep Learning Institute, 2022

Dissertations

Doctorate, ADVANCED METHODS FOR SOURCE AUTHENTICATION AND ATTRIBUTION IN DIGITAL FORENSICS, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, FEN BİLİMLERİ ENSTİTÜSÜ, 2021

Postgraduate, Laplace gürültülü ikili veri haberleşmesinde işaret genliğinin kestirimi, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Elektronik Mühendisliği (YI) (Tezli), 2012

Research Areas

Signal Processing, Multimedia, Image and Video Processing, Signal Processing for Communication, Pattern Recognition and Analysis, Signal Processing Theory and Methods, Information Security and Reliability, Hiding Information, Electrical and Electronics Engineering

Academic Titles / Tasks

Lecturer PhD, Bursa Uludağ University, GEMLİK ASIM KOCABIYIK MYO, ELEKTRİK VE ENERJİ BÖLÜMÜ, 2021 - 2025
Research Assistant, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, FEN BİLİMLERİ ENSTİTÜSÜ, 2012 - 2021
Researcher, New York University, Center for Cyber Security, 2016 - 2016
Researcher, New York University, Center for Cyber Security, 2014 - 2014
Research Assistant, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, FEN BİLİMLERİ ENSTİTÜSÜ, 2009 - 2012

Academic and Administrative Experience

Assistant Director of Vocational School, Bursa Uludağ University, 2022 - 2025

Courses

Bilgisayar Programlamaya Giriş Laboratuvarı, Undergraduate, 2017 - 2018, 2016 - 2017
Elektrik-Elektronik Mühendisleri için Bilgisayar Araçları Laboratuvarı, Undergraduate, 2017 - 2018, 2016 - 2017
ELEKTRONİK DEVRELERİ I LABORATUVARI, Undergraduate, 2017 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **PRNU based source camera attribution for image sets anonymized with patch-match algorithm**
KARAKÜÇÜK A., DİRİK A. E.
DIGITAL INVESTIGATION, vol.30, pp.43-51, 2019 (SCI-Expanded)
- II. **Evaluation of electromagnetic shielding effectiveness of fabrics produced from yarns containing metal wire with a mobile based measurement system**
ÇEVEN E. K., KARAKÜÇÜK A., DİRİK A. E., YALÇIN U.
INDUSTRIA TEXTILA, vol.68, no.4, pp.289-295, 2017 (SCI-Expanded)
- III. **Adaptive photo-response non-uniformity noise removal against image source attribution**
KARAKÜÇÜK A., DİRİK A. E.
DIGITAL INVESTIGATION, vol.12, pp.66-76, 2015 (SCI-Expanded)
- IV. **Forensic use of photo response non-uniformity of imaging sensors and a counter method**
Dirik A. E., Karaküçük A.
OPTICS EXPRESS, vol.22, no.1, pp.470-482, 2014 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Source Device Attribution of Thermal Images Captured with Handheld IR Cameras**
KARAKÜÇÜK A., DİRİK A. E.
11th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 28 - 30 November 2019, pp.547-551
- II. **A New Evaluation Method for Electromagnetic Shielding Effectiveness in Textiles**
Çeven E. K., Karaküçük A., Dirik A. E., Yalçin U.
UTİB Tekstil ve Konfeksiyon Sektöründe VIII. Uluslararası AR-GE Proje Pazarı, Bursa, Turkey, 12 - 13 May 2016, pp.171-172
- III. **Recent Advances in Counter PRNU Based Source Attribution and Beyond**
KARAKÜÇÜK A., DİRİK A. E., SENCAR H. T., MEMON N. D.
Conference on Media Watermarking, Security, and Forensics, San-Francisco, Costa Rica, 9 - 11 February 2015, vol.9409

Supported Projects

Memon N., Lowd D., Karaküçük A., Divakaran A., Project Supported by Public Organizations in Other Countries, Media Forensics Integrity Analytics, Defense Advanced Research Projects, 2016 - 2017

Dirik A. E., TUBITAK Project, Anonymization of Digital Images Against Source Camera Attribution, TUBİTAK 1002 , 2013 - 2014

Patent

Dirik A. E., Karaküçük A., PANORAMA FOTOĞRAFLARINDAN KAYNAK KAMERA SENSÖRÜ PARMAK İZİ ÜRETİMİ YÖNTEMİ, Patent, CHAPTER A Human Needs, The Invention Registration Number: 2021/018005 , Standard Registration, 2022

Karaküçük A., Dirik A. E., Anonymization system and method for digital images, Patent, CHAPTER G Physics, The Invention Registration Number: US10297011B2 , Standard Registration, 2019

Dirik A. E., Karaküçük A., Anonymization system and method for digital images, Patent, CHAPTER G Physics, The Invention Registration Number: 2013 04116 , Standard Registration, 2016

Metrics

Publication: 8

Citation (WoS): 70

Citation (Scopus): 89

H-Index (WoS): 4

H-Index (Scopus): 4

Awards

Dirik A. E., Karaküçük A., National Patent Registration Award, Tübitak, February 2021

Dirik A. E., Karaküçük A., 4th Istanbul International Inventions Fair (ISIF'19) Bronze Medal, Türk Patent Ve Marka Kurumu, September 2019

Dirik A. E., Karaküçük A., 3rd TET R&D Project Market, Information and Communication Technology Applications, Second Prize, Elektrik Elektronik Ve Hizmet İhracatçıları Birliği, March 2014

Non Academic Experience

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