Assoc. Prof. AYDIN KAYA

Personal Information

Office Phone: +90 312 297 7500 Extension: 140
Other Email: aydinkaya@cs.hacettepe.edu.tr
Web: https://web.cs.hacettepe.edu.tr/~aydinkaya/
Address: Hacettepe Üniversitesi Bilgisayar Mühendisliği Bölümü, Beytepe Yerleşkesi 06800 Çankaya Ankara

International Researcher IDs
ScholarID: 4xURlrgAAAAJ
ORCID: 0000-0001-6175-7769
Publons / Web Of Science ResearcherID: I-8550-2013
Yoksis Researcher ID: 35304

Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Dr), Turkey 2009 - 2015
Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Yl) (Tezli), Turkey 2007 - 2009
Undergraduate, Hacettepe University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey 2002 - 2006

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Bilgisayar destekli tanı sistemi ile akciğer nodüllerinin nitelendirilmesi, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Dr), 2015

Research Areas

Computer Sciences, Computer Vision, Computer Vision, Biomedical Engineering, Biomedical Image Processing, Biomedical Image Processing, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Hacettepe University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2021 - Continues
Research Assistant, Hacettepe University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2007 - 2019

Academic and Administrative Experience

Deputy Head of Department, Hacettepe University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2021 - Continues

Deputy Head of Department, Cankaya University, Faculty Of Engineering, Department Of Computer Engineering, 2020 - 2021

Courses

Design Project II, Undergraduate, 2021 - 2022
Derin Öğrenme Uygulamaları, Postgraduate, 2021 - 2022
Image Processing, Doctorate, 2021 - 2022
Fundamentals of Image Processing, Undergraduate, 2021 - 2022
Design Project I, Undergraduate, 2021 - 2022
Fundamentals of Image Processing Lab., Undergraduate, 2021 - 2022
Introduction to Programming I, Undergraduate, 2021 - 2022
Introduction to Programming Lab. I, Undergraduate, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Sensor Failure Tolerable Machine Learning-Based Food Quality Prediction Model**
KAYA A., Keceli A. S., Catal C., Tekinerdogan B.
SENSORS, vol.20, no.11, 2020 (SCI-Expanded)

II. **Development of a recurrent neural networks-based calving prediction model using activity and behavioral data**
Keceli A. S., Catal C., KAYA A., Tekinerdogan B.
COMPUTERS AND ELECTRONICS IN AGRICULTURE, vol.170, 2020 (SCI-Expanded)

III. **Analysis of transfer learning for deep neural network based plant classification models**
KAYA A., KEÇELİ A. S., Catal C., YALIÇ H. Y., TEMUÇİN H., Tekinerdogan B.
COMPUTERS AND ELECTRONICS IN AGRICULTURE, vol.158, pp.20-29, 2019 (SCI-Expanded)

IV. **Cascaded classifiers and stacking methods for classification of pulmonary nodule characteristics**
Kaya A.
Computer Methods And Programs In Biomedicine, vol.166, pp.77-89, 2018 (SCI-Expanded)

V. **Combining 2D and 3D deep models for action recognition with depth information**
KEÇELİ A. S., KAYA A., CAN A. B.
SIGNAL IMAGE AND VIDEO PROCESSING, vol.12, no.6, pp.1197-1205, 2018 (SCI-Expanded)

VI. **Depth features to recognise dyadic interactions**
KEÇELİ A. S., KAYA A., CAN A. B.
IET Computer Vision, vol.12, no.3, pp.331-339, 2018 (SCI-Expanded)

VII. **Classification of radiolarian images with hand-crafted and deep features**
KEÇELİ A. S., KAYA A., KECELI S. U.
COMPUTERS & GEOSCIENCES, vol.109, pp.67-74, 2017 (SCI-Expanded)

VIII. **Cyclotorsion Detection by Using Scleral Blood Vessels**
KAYA A., KEÇELİ A. S., CAN A. B., Çakmak H. B.
COMPUTERS IN BİOLOGY AND MEDİCİNE, vol.87, pp.152-161, 2017 (SCI-Expanded)

IX. **Violent activity detection with transfer learning method**
KEÇELİ A. S., KAYA A.
ELECTRONICS LETTERS, vol.53, no.15, pp.1047-1048, 2017 (SCI-Expanded)

X. **A GPU-Based Approach for Automatic Segmentation of White Matter Lesions**
KEÇELİ A. S., CAN A. B., KAYA A.
IETE JOURNAL OF RESEARCH, vol.63, no.4, pp.461-472, 2017 (SCI-Expanded)

XI. **A weighted rule based method for predicting malignancy of pulmonary nodules by nodule characteristics**

KAYA A., CAN A. B.

JOURNAL OF BIOMEDICAL INFORMATICS, vol.56, pp.69-79, 2015 (SCI-Expanded)

Articles Published in Other Journals

I. **Video Görüntülerinde Şiddet İçeren Aktivitelerin Lstm Ağı İle Tespiti**
KEÇELİ A. S., KAYA A.
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.21, no.63, 2019 (Peer-Reviewed Journal)

II. **Optik Akış Görüntüsü ve Bi-Lstm ile Şiddet İçeren Hareketlerin Sınıflandırılması**
KEÇELİ A. S., KAYA A.
Avrupa Bilim ve Teknoloji Dergisi, no.14, pp.204-208, 2018 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **ADS-B Attack Classification using Machine Learning Techniques**
Kacem T., KAYA A., KEÇELİ A. S., ÇATAL Ç., Wijsekera D., Costa P.
2021 IEEE Intelligent Vehicles Symposium Workshops (IV Workshops), Nagoya, Japan, 11 July 2021

II. **Aşırı Öğrenme Makinesi Algoritmasını Kullanarak Yazılım Zafiyet Kestirimi**
KEÇELİ A. S., KAYA A., ÇATAL Ç., TEKİNERDOĞAN B.
Ulusal Yazılım Mühendisliği Sempozyumu, Turkey, 23 September 2019 - 25 September 2015

III. **İskelet Hacmi ve Derin Öğrenme ile Hareket Tanıma**
KEÇELİ A. S., KAYA A., CAN A. B.
2017 25TH SIGNAL PROCESSING AND COMMUNICATIONS APPLICATIONS CONFERENCE (SIU), Antalya, Turkey, 15 - 18 May 2017

IV. **Investigation of Transfer Learning on Pulmonary Nodule Characteristics**
KAYA A., KEÇELİ A. S., CAN A. B.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017

V. **Action Recognition with Skeletal Volume and Deep Learning**
KEÇELİ A. S., KAYA A., CAN A. B.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017

VI. **Malignancy prediction by using characteristic-based fuzzy sets: A preliminary study**
KAYA A., CAN A. B.
IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2015, İstanbul, Turkey, 2 - 05 August 2015

VII. **A RARE CAUSE OF LUMBOSACRAL PLEXOPATHY: BLADDER DIVERTICULUM**
KAYA A., Bekircan-Kurt C. E., GOCMEN R., TAN E.
Biennial Meeting of the Peripheral-Nerve-Society, Quebec, Canada, 27 June - 02 July 2015, vol.20, pp.166-167

VIII. **Determining Malignancy of Small Pulmonary Nodules by Nodule Characteristics**
KAYA A., CAN A. B.
6th European Conference of the International Federation for Medical and Biological Engineering, 7 - 11 September 2014

IX. **eFis: A Fuzzy Inference Method for Predicting Malignancy of Small Pulmonary Nodules**
KAYA A., CAN A. B.
11th International Conference on Image Analysis and Recognition (ICIAR), Portugal, 22 - 24 October 2014, vol.8815, pp.255-262

X. **Designing a pattern stabilization method using scleral blood vessels for laser eye surgery**
KAYA A., CAN A. B., Çakmak H. B.
2010 20th International Conference on Pattern Recognition, ICPR 2010, İstanbul, Turkey, 23 - 26 August 2010, pp.698-701

XI. **Developing an eye tracking method for laser eye surgery Lazer göz cerrahisi için bir göz takip yöntemi geliştirilmesi**
KAYA A., CAN A. B.
2009 IEEE 17th Signal Processing and Communications Applications Conference, SIU 2009, Antalya, Turkey, 9 - 11 April 2009, pp.392-395

Supported Projects

Kaya A., Temuçin H., Yalıç H. Y., Keçeli A. S., TUBITAK Project, GÖRME SORUNU YAŞAYANLAR İÇİN BULUT TABANLI SOSYAL YAŞAMA YARDIMCI YAZILIM ODAKLI BİRPLATFORMUN GELİŞTİRİLMESİ, 2017 - 2019
KAYA A., Project Supported by Higher Education Institutions, 6. Uluslararası Bellek Konferansına (International Conference on Memory 2016) Katılım, 2016 - 2018
Kaya A., Temuçin H., Keçeli A. S., Yalıç H. Y., KOSGEB, Görme engelli ve görme bozukluğu yaşayan kişiler için yaşam asistanı, 2015 - 2016

Metrics

Publication: 27
Citation (WoS): 246
Citation (Scopus): 440
H-Index (WoS): 7
H-Index (Scopus): 6

Invited Talks

A Multi-Task Deep Learning Model for Plant Disease Classification, Workshop, University of Banja Luka / SmAg Tech EXPO, Bosnia And Herzegovina, November 2021