

Asst. Prof. ALİ OSMAN SELVİ

Personal Information

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International Researcher IDs

ScholarID: lLr003sAAAAJ

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Publons / Web Of Science ResearcherID: IZE-6379-2023

ScopusID: 56437564800

Yoksis Researcher ID: 101364

Education Information

Doctorate, Sakarya University, Institute Of Science, Elektrik, Elektronik Mühendisliği (Dr), Turkey 2012 - 2022

Postgraduate, Kütahya Dumlupınar University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 2008 - 2010

Undergraduate, Mugla Sıtkı Kocman University, Faculty Of Technical Education, Department Of Electronics And Computer Education, Turkey 2003 - 2008

Foreign Languages

English, B1 Intermediate

Dissertations

Doctorate, MAKİNE ÖĞRENMESİ ALGORİTMALARI İLE ENGELLİLERE YÖNELİK EEG İŞARETLERİNİN

SINIFLANDIRILMASI, Sakarya University, Fen Bilimleri Enstitüsü, Elektrik, Elektronik Mühendisliği (Dr), 2022

Postgraduate, İnsan nefesinden kandaki glikoz ve HbA1c değerlerinin elektronik burun kullanılarak belirlenmesi,

Kütahya Dumlupınar University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2010

Research Areas

Human and Robot Interaction, Computer Vision, Processor Architectures, Computer Learning, Human Computer Interaction, Pattern Recognition and Image Processing, Neural Networks, Programming Languages, Software Engineering, Biomedical Image Processing, Biosignal Processing

Academic and Administrative Experience

Bilecik Seyh Edebali University, 2017 - Continues

Bilecik Seyh Edebali University, 2015 - 2017

Courses

İş Yeri Uygulaması, Associate Degree, 2021 - 2022, 2020 - 2021, 2019 - 2020
Görsel Programlama, Associate Degree, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Java Programlama, Associate Degree, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
İş Yeri Eğitimi, Associate Degree, 2021 - 2022, 2020 - 2021, 2019 - 2020
Programlamanın Temelleri, Associate Degree, 2021 - 2022, 2020 - 2021
Masaüstü Uygulama Geliştirme, Associate Degree, 2020 - 2021, 2019 - 2020
C++ Programlama, Associate Degree, 2020 - 2021
Ofis Programları, Associate Degree, 2020 - 2021, 2019 - 2020, 2018 - 2019
Nesne Yönelimli Programlama, Associate Degree, 2020 - 2021
Ağ Teknolojileri, Associate Degree, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
C Programlama, Associate Degree, 2019 - 2020
Temel Bilgi Teknolojisi Kullanımı, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018
Programlama Dilleri, Associate Degree, 2019 - 2020
Bilgisayar Mühendisliği Tasarım Çalışması II, Undergraduate, 2018 - 2019
Temel bilgi Teknolojisi Kullanımı, Associate Degree, 2018 - 2019
Araştırma Teknikleri ve Seminer, Associate Degree, 2018 - 2019
Bilgisayar Mühendisliği Tasarım Çalışması I, Undergraduate, 2018 - 2019
Kablosuz Ağ Teknolojileri, Undergraduate, 2018 - 2019, 2015 - 2016
Bilgisayar Mimarisi ve Organizasyonu, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013
İLERİ BİLGİSAYAR MİMARİSİ, Undergraduate, 2017 - 2018, 2015 - 2016, 2013 - 2014
JAVA PROGRAMLAMA I İÖ, Associate Degree, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
GÖRSEL PROGRAMLAMA I N.Ö., Associate Degree, 2017 - 2018, 2016 - 2017, 2015 - 2016
Bitirme Çalışması, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
Mikro Bilgisayar Sistemler ve Assembler, Associate Degree, 2017 - 2018
Proje I, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013
JAVA PROGRAMLAMA I NÖ, Associate Degree, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
GÖRSEL PROGRAMLAMA I İÖ, Associate Degree, 2017 - 2018, 2016 - 2017, 2015 - 2016
BİLGİSAYAR AĞ SİSTEMLERİ NÖ, Associate Degree, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013
PROJE II, Undergraduate, 2017 - 2018, 2016 - 2017, 2014 - 2015, 2013 - 2014
Görsel Programlama II, Associate Degree, 2017 - 2018, 2014 - 2015
BİLGİSAYAR AĞ SİSTEMLERİ İÖ, Associate Degree, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013
GÖRSEL PROGRAMLAMA II NÖ, Associate Degree, 2016 - 2017, 2015 - 2016
AĞ GÜVENLİĞİ, Undergraduate, 2016 - 2017
GÖRSEL PROGRAMLAMA II İ.Ö., Associate Degree, 2016 - 2017, 2015 - 2016
MİKROBİLGİSAYAR SİSTEMLER VE ASSEMBLER NÖ, Associate Degree, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012
JAVA PROGRAMLAMA II N.Ö., Associate Degree, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
MİKROBİLGİSAYAR SİSTEMLER VE ASSEMBLER İÖ, Associate Degree, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012
JAVA PROGRAMLAMA II İ.Ö., Associate Degree, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
GÖRSEL PROGRAMLAMA I, Associate Degree, 2016 - 2017, 2014 - 2015
GRAFİK ANİMASYON NÖ, Associate Degree, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012
ROBOT TEKNOLOJİSİ İ.Ö., Associate Degree, 2014 - 2015
MİKROBİLGİSAYAR SİSTEMLERİ VE ASSEMBLER, Associate Degree, 2014 - 2015, 2011 - 2012
İŞLETİM SİSTEMLERİ NÖ, Associate Degree, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012
İŞLETİM SİSTEMLERİ İÖ, Associate Degree, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012
ROBOT TEKNOLOJİSİ N.Ö., Associate Degree, 2014 - 2015

VERİ YAPILARI VE PROGRAMLAMA, Associate Degree, 2013 - 2014
GRAFİK ANİMASYON İÖ, Associate Degree, 2013 - 2014, 2012 - 2013, 2011 - 2012
JAVA İLE NESNE YÖNELİMLİ PROGRAMLAMA NÖ, Associate Degree, 2012 - 2013
İŞLETİM SİSTEMLERİ, Associate Degree, 2012 - 2013
SAYISAL ELEKTRONİK NÖ, Associate Degree, 2012 - 2013
JAVA İLE NESNE YÖNELİMLİ PROGRAMLAMA İÖ, Associate Degree, 2012 - 2013
ANİMASYON TEKNİKLERİ NÖ, Associate Degree, 2012 - 2013, 2011 - 2012
ENTEĞRE OFİS İÖ, Associate Degree, 2012 - 2013, 2011 - 2012
ENTEĞRE OFİS NÖ, Associate Degree, 2012 - 2013, 2011 - 2012
ANİMASYON TEKNİKLERİ İÖ, Associate Degree, 2012 - 2013, 2011 - 2012
SAYISAL ELEKTRONİK, Associate Degree, 2012 - 2013
TEMEL ELEKTRONİK İÖ, Associate Degree, 2011 - 2012
VİSUAL BASİC PROGRAMLAMA 2 NÖ, Associate Degree, 2011 - 2012
ENTEĞRE OFİS, Associate Degree, 2011 - 2012
VİSUAL BASİC PROGRAMLAMA 2 İÖ, Associate Degree, 2011 - 2012
SENKRO / SERO SİSTEMLER NÖ, Associate Degree, 2011 - 2012
ENSTRUMENTASYON NÖ, Associate Degree, 2011 - 2012
ARAŞTIRMA TEKNİKLERİ NÖ, Associate Degree, 2011 - 2012
KALİTE GÜVENCESİ VE STANDARTLARI NÖ, Associate Degree, 2011 - 2012

Advising Theses

SELVİ A. O., EKG sinyallerinden elde edilen görüntülerin hibrit derin öğrenme yöntemleri kullanılarak sınıflandırılması, Postgraduate, O.AKCAN(Student), 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Automated liver segmentation using Mask R-CNN on computed tomography scans Bilgisayarlı tomografi taramaları üzerinde maskeli bölgesel-evrimsel sinir ağları ile karaciğerin otomatik bölütlenmesi**
DANDIL E., YILDIRIM M. S., SELVİ A. O., Uzun S.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.37, no.1, pp.29-46, 2022 (SCI-Expanded)
- II. **Classification of P300 based brain computer interface systems using long short-term memory (LSTM) neural networks with feature fusion**
SELVİ A. O., FeriKoğlu A., Güzel Erdoğan D.
Turkish Journal of Electrical Engineering and Computer Sciences, vol.29, pp.2694-2715, 2021 (SCI-Expanded)
- III. **Electronic nose system based on quartz crystal microbalance sensor for blood glucose and hba1c levels from exhaled breath odor**
Saraoglu H. M., SELVİ A. O., Ebeoglu M. A., Tasaltin C.
IEEE Sensors Journal, vol.13, no.11, pp.4229-4235, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **A Hybrid Method Based on Feature Fusion for Breast Cancer Classification using Histopathological Images**
DANDIL E., SELVİ A. O., ÇEVİK K. K., YILDIRIM M. S., UZUN S.
Avrupa Bilim ve Teknoloji Dergisi, 2021 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Detection of breast cancer using deep neural networks with transfer learning on histopathological images**
ÇEVİK K. K., DANDIL E., UZUN S., YILDIRIM M. S., SELVİ A. O.
in: Artificial Intelligence for Data-Driven Medical Diagnosis, Deepak Gupta, Utku Kose, Bao Le Nguyen, Siddhartha Bhattacharyya, Editor, Walter de Gruyter GmbH & Co KG, pp.245-264, 2021
- II. **Detection of Breast Cancer Using Deep Neural Networks with Transfer Learning on Histopathological Images**
ÇEVİK K. K., DANDIL E., UZUN S., SELVİ A. O., YILDIRIM M. S.
in: Artificial Intelligence for Data-Driven Medical Diagnosis, Deepak Gupta, Utku Kose, Bao Le Nguyen, Siddhartha Bhattacharyya, Editor, Walter de Gruyter GmbH, Berlin, pp.245-264, 2021

Refereed Congress / Symposium Publications in Proceedings

- I. **Fully automated axial plane segmentation of cervical spinal cord using U-Net in MR scans**
POLATTİMUR R., DANDIL E., YILDIRIM M. S., ŞENOL A. U., TEZEL MERSİNLİOĞLU Z. E., SELVİ A. O., CANBAZ KABAY S.
7th International Symposium on Innovative Approaches in Smart Technologies, 23 November 2023, pp.1-7
- II. **A Hybrid Method Based on Feature Fusion for Breast Cancer Classification using Histopathological Images**
DANDIL E., SELVİ A. O., ÇEVİK K. K., YILDIRIM M. S., UZUN S.
5th International Symposium on Multidisciplinary Studies and Innovative Technologies, Ankara, Turkey, 21 - 23 October 2021, pp.23
- III. **A preliminary study on Mobile Monitoring System for Intervention and Tracking after Traffic Accidents**
SELVİ A. O., KIRAY A., CİVEKOĞLU C.
3rd International Conference on Data Science and Applications (ICONDATA'20), June 25-28, 2020, Istanbul, TURKEY, Turkey, 25 June 2020
- IV. **Web Tabanlı Test Sorusu Hazırlama ve Soru Kitapçığı Oluşturma Sistemi**
UZUN S., ÖZTÜRK H., SELVİ A. O., DANDIL E.
2nd International Conference on Data Science and Applications (ICONDATA'19), Balıkesir, Turkey, 3 - 06 October 2019, pp.76-82
- V. **Feature Extraction of P300 Signals Using Spectral Entropy Method**
SELVİ A. O., FERİKOĞLU A., GÜZEL ERDOĞAN D.
2nd International Conference on Data Science and Applications (ICONDATA'19), Balıkesir, Turkey, 3 - 06 September 2019
- VI. **Web Based Test Question Preparation and Question Booklet System**
UZUN S., ÖZTÜRK H., SELVİ A. O., DANDIL E.
2. Uluslararası Veri Bilimi ve Uygulamaları Konferansı (ICONDATA'2019), Balıkesir, Turkey, 3 - 06 October 2019
- VII. **Real Time Estimation of Data from Color Sensor**
Bakay K., SELVİ A. O.
2. Uluslararası Veri Bilimi ve Uygulamaları Konferansı (ICONDATA 2019), Balıkesir, Turkey, 3 - 06 October 2019
- VIII. **Araştırma Laboratuvarları İçin Online Rezervasyon ve Takip Sistemi**
DANDIL E., SELVİ A. O., YAVAS I. E.
International Conference on Data Science and Applications (ICONDATA 2018), Yalova, Turkey, 4 - 07 October 2018, pp.47
- IX. **Comparing the stimulus time of the P300 Based Brain Computer Interface Systems with the Deep Learning Method**
SELVİ A. O., Ferikoglu A., Guzel D.

2nd International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2018, Kizilcahamam, Ankara, Turkey, 19 - 21 October 2018

- X. **Web Based Animal Tracker System**
YILDIRIM M. S., SELVİ A. O., DANDIL E.
2nd International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2018, Kizilcahamam, Ankara, Turkey, 19 - 21 October 2018
- XI. **Web Tabanlı Sınav Organizasyon Sistemi**
SELVİ A. O., UZUN S., DANDIL E., ÖZTÜRK H.
2018 2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Ankara, Turkey, 19 - 21 October 2018, pp.1-5
- XII. **Test Sınavlarına Yönelik Web Tabanlı Optik Form Kodlama ve Doğrulama Sistemi**
SELVİ A. O., DANDIL E., UZUN S., Aydın S., ÖZTÜRK H.
Uluslararası Veri Bilimi ve Uygulamaları Konferansı, Yalova, Turkey, 4 - 07 September 2018
- XIII. **Selection of eligible channel and frequency components for visual evoked EEG applications Görsel uyaran kullanan EEG uygulamaları için uygun kanal ve frekans bileşenlerinin belirlenmesi**
SELVİ A. O., Ferikoglu A., Guzel D., DANDIL E.
26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- XIV. **Automatic segmentation and applied analysis of liver on computed tomography scans BT görüntüleri üzerinde karaciğerin otomatik bölütlenmesi ve uygulamalı analizi**
DANDIL E., Erdinc Y., SELVİ A. O.
26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- XV. **Computer-aided automatic segmentation of brain tumors using s-FCM on MR images MR görüntüleri üzerinde beyin tümörlerinin s-FCM ile bilgisayar destekli otomatik bölütlenmesi**
DANDIL E., SELVİ A. O.
26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- XVI. **Design and Implementation of Real-Time Computer Vision System for Fatigue of Vehicle Drivers**
DANDIL E., CIVİK E., SELVİ A. O.
7th International Conference on Advanced Technologies (ICAT'18), Antalya, Turkey, 28 April - 01 May 2018, pp.685-689
- XVII. **Mobile Medical Data Recording and Monitoring System (MediReMoS): A Preliminary Study**
SELVİ A. O., DANDIL E., CELEBI M.
7th International Conference on Advanced Technologies (ICAT'18), 28 April - 01 May 2018, pp.1060-1064
- XVIII. **Design and implementation of EEG signal based brain computer interface for eye blink detection Göz Kırpması Tespiti İçin EEG İşaretleri Tabanlı Beyin Bilgisayar Arayüzü Tasarımı ve Uygulaması**
SELVİ A. O., Ferikoğlu A., Güzel D., Karagöz E.
2nd International Conference on Computer Science and Engineering, UBMK 2017, Antalya, Turkey, 5 - 08 October 2017, pp.544-548
- XIX. **Design and implementation of EEG signal based brain computer interface for eye blink detection**
SELVİ A. O., FERİKOĞLU A., GÜZEL D., Karagöz E.
UBMK 2017, 5 - 07 October 2017
- XX. **Determination of glucose and HbA1c values in blood from human breath by using Radial Basis Function Neural Network via electronic nose İnsan nefesinden kandaki glikoz ve HbA1c değerlerinin elektronik burun yardımıyla radyal fonksiyon tabanlı yapay sinir ağı kullanılarak belirlenmesi**
Saraoğlu H. M., SELVİ A. O.
2014 18th National Biomedical Engineering Meeting, BIYOMUT 2014, İstanbul, Turkey, 16 - 17 October 2014