

## Asst. Prof. EMRE ÜNSAL

### Personal Information

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### International Researcher IDs

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Yoksis Researcher ID: 148480

### Education Information

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Dr), Turkey 2010 - 2016

Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli), Turkey 2006 - 2010

Undergraduate, Erciyes University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey 2000 - 2004

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Energy efficient wireless sensor networks for underground mining applications, Dokuz Eylül Üniversitesi, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Dr), 2016

Postgraduate, Obtaining the three-dimensional structure of the current environment by using fiber grating laser system, Dokuz Eylül Üniversitesi, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli), 2010

### Academic Titles / Tasks

Assistant Professor, Sivas Cumhuriyet University, Teknoloji Fakültesi, Yazılım Mühendisliği Bölümü, 2018 - Continues

Research Assistant, Sivas Cumhuriyet University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2017 - 2018

Research Assistant, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2006 - 2017

Research Assistant, Sivas Cumhuriyet University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2005 - 2006

### Academic and Administrative Experience

Head of Department, Sivas Cumhuriyet University, Teknoloji Fakültesi, Yazılım Mühendisliği Bölümü, 2019 - 2022

### Courses

Kablosuz Ağlayıcı Ağlar, Postgraduate, 2021 - 2022, 2020 - 2021

Optik Algılayıcılar ve Uygulamaları, Postgraduate, 2018 - 2019

Sayısal Görüntü İşleme, Undergraduate, 2019 - 2020

Paralel Programlama, Undergraduate, 2018 - 2019  
Bilgisayar Ağları, Undergraduate, 2018 - 2019  
Bilgisayar Mimarisi, Undergraduate, 2019 - 2020  
Bilgisayar Ağları, Undergraduate, 2018 - 2019  
Paralel Programlama, Undergraduate, 2018 - 2019  
Seminer Dersi, Postgraduate, 2018 - 2019  
Bilgisayar Mimarisi, Undergraduate, 2019 - 2020  
Sistem Dinamiği ve Denetimi, Undergraduate, 2018 - 2019  
Uzmanlık Alan Dersi, Postgraduate, 2019 - 2020  
Sistem Dinamiği ve Denetimi, Undergraduate, 2018 - 2019  
Sayısal Görüntü İşleme, Undergraduate, 2019 - 2020  
Algılayıcılar ve Aktüatörler, Undergraduate, 2019 - 2020  
Algılayıcılar ve Aktüatörler, Undergraduate, 2018 - 2019

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Thermoluminescence properties of annealed natural quartz after beta irradiation**  
YÜKSEL M., DOĞAN T., Unsal E., Portakal Z. G., Akca S., YEĞİNGİL Z., TOPAKSU M.  
LUMINESCENCE, vol.31, no.8, pp.1513-1518, 2016 (SCI-Expanded)
- II. **Omni-directional vision system with fibre grating device for obstacle detection**  
Gurkahraman K., Unsal E., Çebi Y.  
IET COMPUTER VISION, vol.5, no.5, pp.267-281, 2011 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Evrışimli sinir ağları kullanılarak ince kesit görüntülerden hidrotermal alterasyon tespiti**  
Çenet R., ÜNSAL E., CANBAZ O.  
ENGINEERING SCIENCES, vol.13, no.2, pp.528-539, 2024 (Peer-Reviewed Journal)
- II. **A Matching Model to Measure Compliance between Department and Student**  
TAKCI H., GÜRKAHRAMAN K., ÜNSAL E., YELKUVAN A. F.  
Cumhuriyet Science Journal, vol.41, no.2, pp.467-471, 2020 (Peer-Reviewed Journal)
- III. **Creating Ontology Based Concept Maps which can be Queried in Computer Environment**  
MİLLİ M., ÜNSAL E., AKTAŞ Ö.  
The Online Journal of Science and Technology, vol.6, no.2, pp.30-37, 2016 (Peer-Reviewed Journal)
- IV. **Low Cost Wireless Sensor Networks for Environment Monitoring**  
ÜNSAL E., MİLLİ M., ÇEBİ Y.  
The Online Journal of Science and Technology, vol.6, no.2, pp.61-67, 2016 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Artık ve Yoğun Bağlantı Tabanlı Derin Öğrenme Modelleri Kullanarak Görüntü Manipülasyonu Tespiti**  
KARAKIŞ R., GÜRKAHRAMAN K., ÜNSAL E.  
32. IEEE Sinyal İşleme ve İletişim Uygulamaları (SIU) Kurultayı (SIU-2024), MERSİN-TARSUS, Turkey, 15 May 2024
- II. **GENERATING SYNTHETIC BRAIN MRI IMAGES WITH GENERATIVE ADVERSARIAL NETWORKS**  
YILDIZ Ü., ÜNSAL E., KARAKIŞ R.  
International Conference on Engineering Technologies (ICENTE'23), Konya, Turkey, 23 November 2023, pp.27
- III. **Hydrothermal Alteration Detection from Thin Section Images Using Convolutional Neural Networks**  
Çenet R., ÜNSAL E., CANBAZ O.

5th International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 10 - 12 July 2023, pp.220

- IV. **Data Imputation on Lost IoT Data Kayıp IoT Verileri zerinde Veri Tamamlanması**  
Kurtulmuşlu R., ÜNSAL E.  
2023 Innovations in Intelligent Systems and Applications Conference, ASYU 2023, Sivas, Turkey, 11 - 13 October 2023
- V. **FPGA TABANLI ÜÇ BOYUTLU LAZER TARAYICI TASARIMI**  
Gedik M. İ., Karakış R., Ünsal E.  
ULUSLARARASI 19 MAYIS YENİLİKÇİ BİLİMSEL YAKLAŞIMLAR KONGRESİ, Samsun, Turkey, 27 December 2019 - 29 December 2020, pp.797-805
- VI. **Computer Assisted Sensory Transformation and Perception Extension System**  
KOÇKANAT S., ÜNSAL E., Tütüncü P., Kopuz E., Esen S.  
International Conference on Innovative Engineering Applications 2018, Sivas, Turkey, 20 - 22 September 2018
- VII. **Theoretical Analysis of Simulated First Order TL Glow Peaks**  
YÜKSEL M., ÜNSAL E.  
Second Congress on Radiation Protection, 23 - 25 November 2017, pp.46
- VIII. **A MATCHING MODEL TO MEASURE COMPLIANCE BETWEEN DEPARTMENT ANDSTUDENT**  
TAKCI H., GÜRKAHRAMAN K., USTA H. G., ÜNSAL E., YELKUVAN A. F.  
3rd International Congress on Education Sciences and Learning Technology (ICESLT), 15 - 19 November 2017
- IX. **SEEKING CORRELATIONS BETWEEN DEMOGRAPHIC DATA AND ACHIEVEMENTLEVELS OF COMPUTER ENGINEERING STUDENTS**  
TAKCI H., GÜRKAHRAMAN K., ÜNSAL E., YELKUVAN A. F.  
3rd International Congress on Education Sciences and Learning Technology (ICESLT), 15 - 19 November 2017
- X. **Low cost Wireless Sensor Networks for Greenhouse Monitoring Applications**  
ÜNSAL E., MİLLİ M., AKTAŞ Ö., ÇEBİ Y.  
4th International Conference on Advanced Technology & Sciences(ICATRome), 23 - 25 November 2016
- XI. **Development of a Thermoluminescence Parameter Calculator Program**  
YÜKSEL M., ÜNSAL E.  
4th International Conference on Advanced Technology & Sciences (ICAT'Rome), 23 - 25 November 2016
- XII. **A New Software for Evaluating Thermoluminescence Glow Peaks**  
YÜKSEL M., ÜNSAL E.  
10th International Conference on Luminescence and ESR Dosimetry (LumiDoz-10), 5 - 07 September 2016
- XIII. **Power management for Wireless Sensor Networks in underground mining**  
ÜNSAL E., AKKAN T., AKKAN L. Ö., ÇEBİ Y.  
2016 24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016
- XIV. **An Initial Study of Developing a TL Glow Curve Deconvolution Application**  
YÜKSEL M., ÜNSAL E., DOĞAN T., TOPAKSU M.  
International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT2016), 28 - 30 April 2016
- XV. **Thermoluminescence Glow Curve Properties of TLD-500 Dosimeter**  
YÜKSEL M., PORTAKAL Z. G., DOĞAN T., TOPAKSU M., ÜNSAL E.  
Third International Conference on Radiation and Applications in Various Fields of Research Conference (RAD2015), Budva, Montenegro, 8 - 12 June 2015, vol.3, pp.387-392

## Supported Projects

Karakış R., Gürkahraman K., Çiğdem B., Ünsal E., Project Supported by Higher Education Institutions, A Deep Learning Framework for Early Detection of Alzheimer and Mild Cognitive Impairment Diseases Using Neuroimages: DeepBrain, 2023 - 2025

Ünsal E., Technopark, Lorawan Isı Sayacı ve Enerji Hesabında Yapay Zekâ, 2022 - 2023

Yelkuvan A. F., Ünsal E., Gürkahraman K., KOSGEB, Inncreawatch Distilled Water Monitoring System, 2021 - 2023

Birdal A. C., Yelkuvan A. F., Ünsal E., Atun R., Project Supported by Higher Education Institutions, Bina Çatuları İçin Coğrafi Bilgi Sistemi Kullanılarak Güneş Enerjisi Üretimi Optimizasyonu (A Geographical Information System Based Optimization of Solar Radiation Energy Production of Rooftops), 2018 - 2021

Ünsal E., Yüksel M., Doğan T., Topaksu M., Project Supported by Higher Education Institutions, Lüminesans Eğrilerinin Analizi İçin Kullanılan Bilgisayarla Işıma Eğrisi Ayrıştırma Programının Yazılması ve Geliştirilmesi, 2015 - 2017

## **Metrics**

Publication: 24

Citation (WoS): 11

Citation (Scopus): 11

H-Index (WoS): 2

H-Index (Scopus): 2