

Asst. Prof. KALİ GÜRKAHRAMAN

Personal Information

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International Researcher IDs

ScholarID: Cr0nQQkAAAAJ

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Publons / Web Of Science ResearcherID: ADK-0395-2022

ScopusID: 53263794000

Yoksis Researcher ID: 110347

Education Information

Post Doctorate, McGill University, Faculty of Medicine, Canada 2019 - 2020

Doctorate, Dokuz Eylül University, Fen Bilimleri Enstitüsü, Computer Engineering, Turkey 2004 - 2011

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Elektrik Elektronik Mühendisliği A.B.D., Turkey 1998 - 2001

Undergraduate, Hacettepe University, Mühendislik Fakültesi, Elektrik Ve Elektronik Bölümü, Turkey 1990 - 1997

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Omni-directional vision based environment sensing for movement control of mobile robots, Dokuz Eylül University, Institute of Science, Computer Engineering, 2011

Postgraduate, Sayısal çıkarmalı anjiyografide görüntü artifaktlarının polinom yaklaşımı geometrik dönüşümle düzeltmesi, Hacettepe University, Fen Bilimleri Enstitüsü, 2001

Research Areas

Image and Video Processing, Hiding Information, Computer Vision, Pattern Recognition and Image Processing, Neural Networks, Biomedical Image Processing

Academic Titles / Tasks

Assistant Professor, Sivas Cumhuriyet University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2011 - Continues

Research Assistant, Dokuz Eylül University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2004 - 2011

Research Assistant, Sivas Cumhuriyet University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2003 - 2004

Academic and Administrative Experience

Head of Department, Sivas Cumhuriyet University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2012 - Continues

Head of Department, Sivas Cumhuriyet University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2015 - 2017

Courses

Sinyaller ve Sistemler, Undergraduate, 2018 - 2019

Görüntü Analizi ve Bilgisayarla Görme, Postgraduate, 2018 - 2019

Sinyaller ve Sistemler, Undergraduate, 2018 - 2019

Uzmanlık Alan Dersi, Postgraduate, 2019 - 2020

Sayısal Görüntü İşleme, Undergraduate, 2018 - 2019

Sayısal Görüntü İşleme, Undergraduate, 2018 - 2019

Mikroişlemciler, Undergraduate, 2018 - 2019

Seminer Dersi, Postgraduate, 2017 - 2018

Mikroişlemciler, Undergraduate, 2018 - 2019

Tez Çalışması, Postgraduate, 2018 - 2019

Paralel Programlama, Undergraduate, 2016 - 2017

Paralel Programlama, Undergraduate, 2016 - 2017

Algoritma Analizi, Undergraduate, 2016 - 2017

Algoritma Analizi, Undergraduate, 2016 - 2017

Optiksel Tasarım, Postgraduate, 2016 - 2017

Mühendislik Projesi, Undergraduate, 2016 - 2017

Mühendislik Projesi, Undergraduate, 2016 - 2017

Devre Teorisine Giriş, Undergraduate, 2014 - 2015

Devre Teorisine Giriş, Undergraduate, 2014 - 2015

Algoritmalar ve Programlama Lab., Undergraduate, 2014 - 2015

WEB Teknolojileri, Undergraduate, 2014 - 2015

Bilgisayar Uygulamaları, Undergraduate, 2013 - 2014

Algoritmalar ve Programlama Lab., Undergraduate, 2014 - 2015

Proses Enstrumantasyon, Undergraduate, 2014 - 2015

WEB Teknolojileri, Undergraduate, 2014 - 2015

Bilgisayar Uygulamaları, Undergraduate, 2013 - 2014

Proses Enstrumantasyon, Undergraduate, 2014 - 2015

Algoritmalar ve Programlama, Undergraduate, 2014 - 2015

Algoritmalar ve Programlama, Undergraduate, 2014 - 2015

Elektrik Ölçme Tekniği, Undergraduate, 2013 - 2014

Elektrik Ölçme Tekniği, Undergraduate, 2013 - 2014

Elektronik II, Undergraduate, 2012 - 2013

Bilgisayar - II, Undergraduate, 2011 - 2012

Bilgisayar - II, Undergraduate, 2011 - 2012

Bilgisayar - II, Undergraduate, 2011 - 2012

Elektronik I, Undergraduate, 2012 - 2013

Temel Bilgi Teknolojileri Kullanımı, Undergraduate, 2011 - 2012

Temel Bilgi Teknolojileri Kullanımı, Undergraduate, 2011 - 2012

Temel Bilgisayar Teknolojileri Kullanımı, Undergraduate, 2011 - 2012

Temel Bilgisayar Teknolojileri Kullanımı, Undergraduate, 2011 - 2012

Advising Theses

Gürkahraman K., Parametrik eğrilerle bir nesne şablonunun 2B şeklini yeniden oluşturmak için yeni bir kontur izleme

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Deep learning prediction of motor performance in stroke individuals using neuroimaging data
Karakış R., Gürkahraman K., Mitsis G. D., Boudrias M.
JOURNAL OF BIOMEDICAL INFORMATICS, vol.141, pp.1-13, 2023 (SCI-Expanded)
- II. A Novel Contour Tracing Algorithm for Object Shape Reconstruction Using Parametric Curves
Arslan N., GÜRKAHRAMAN K.
Computers, Materials and Continua, vol.75, no.1, pp.331-350, 2023 (SCI-Expanded)
- III. Improving Brain Tumor Classification with Deep Learning Using Synthetic Data
Yapıcı M. M., Karakış R., Gürkahraman K.
COMPUTERS, MATERIALS AND CONTINUA, vol.74, no.3, pp.5049-5067, 2023 (SCI-Expanded)
- IV. Brain tumors classification with deep learning using data augmentation
Gürkahraman K., Karakış R.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.36, no.2, pp.997-1011, 2021 (SCI-Expanded)
- V. Evaluation of segmented brain regions for medical image steganography
Karakış R., Gürkahraman K., Çiğdem B., Öztoprak İ., Topaktas A. S.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.36, no.4, pp.2301-2314, 2021 (SCI-Expanded)
- VI. Omni-directional vision system with fibre grating device for obstacle detection
Gürkahraman K., Unsal E., Çebi Y.
IET COMPUTER VISION, vol.5, no.5, pp.267-281, 2011 (SCI-Expanded)

Articles Published in Other Journals

- I. Brain Extraction from Magnetic Resonance Images Using UNet modified with Residual and Dense Layers
GÜRKAHRAMAN K., DAŞGIN Ç.
Türk Doğa ve Fen Dergisi, vol.12, no.3, pp.144-151, 2023 (Peer-Reviewed Journal)
- II. A Novel Color Image Watermarking Method with Adaptive Scaling Factor Using Similarity-Based Edge Region
Gürkahraman K., Karakış R., Takci H.
COMPUTER SYSTEMS SCIENCE AND ENGINEERING, vol.47, no.1, pp.55-77, 2023 (Scopus)
- III. EDGE-BASED WATERMARKING IN REGIONS OF NONE INTEREST FOR THE SECURITY OF MEDICAL IMAGES
Karakış R., Gürkahraman K.
Adiyaman Üniversitesi Mühendislik Bilimleri Dergisi, vol.8, no.14, pp.154-168, 2021 (Peer-Reviewed Journal)
- IV. Steganalysis with Deep Learning on Medical Images
Karakış R., Gürkahraman K.
INTERNATIONAL JOURNAL OF INFORMATICS TECHNOLOGIES, vol.14, no.2, pp.151-159, 2021 (Peer-Reviewed Journal)
- V. 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)

Books & Book Chapters

- I. **Chapter 10: Data Augmentation in the Analysis of Neuroimages with Deep Learning**
KARAKİŞ R., GÜRKAHRAMAN K.
in: Artificial Intelligence Applications in Medicine, FUAT TÜRK, Editor, Hipokrat Yayıncılık-MediHealth Academy, Ankara, pp.79-88, 2022

Refereed Congress / Symposium Publications in Proceedings

- I. **Artık Bağlantılar ile Düzenlenen U-Net Mimarisi Kullanarak Beyin Çıkarımı**
DAŞGIN Ç., GÜRKAHRAMAN K.
5th International Conference on Applied Engineering and Natural Sciences ICAENS 2023, Konya, Turkey, 10 - 12 July 2023, pp.348
- II. **Evrişimsel Sinir Ağlarında Kullanılan Havuzlama Yöntemlerinin Çoklu Sınıflandırma İçin Karşılaştırılması**
ARSLAN P., GÜRKAHRAMAN K.
11. Uluslararası Akademik Araştırmalar Kongresi (ICAR), Turkey, 25 - 26 July 2023, pp.226-227
- III. **Edge-Based Image Watermarking Method with Weighted Discrete Cosine Transform Coefficients Ayrik Kosinüs Dönüşümü Katsayılarının Ağırlandırdığı Kenar Tabanlı Görüntü Damgalama Yöntemi**
Karakış R., Gürkahraman K.
30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Turkey, 15 - 18 May 2022
- IV. **Bézier and B-spline Curve Definition of Outer Boundary of an Object Template Using Sequential Edge Points**
Arslan N., Gürkahraman K.
International Conference on Engineering Technologies (ICENTE'21), Konya, Turkey, 18 - 20 November 2021, pp.575-579
- V. **HIDING PATIENT INFORMATION INTO MAGNETIC RESONANCE IMAGES USING DNA BASED WAVELET TRANSFORM**
Karakış R., Gürkahraman K., Çiğdem B., Öztoprak İ., Topaktaş A. S.
The International Journal of Arts Sciences' (IJAS) American Canadian Conference for Engineering and Technology, Montreal, Canada, 30 May - 02 June 2018, vol.8, pp.161-170
- VI. **SEEKING CORRELATIONS BETWEEN DEMOGRAPHIC DATA AND ACHIEVEMENT LEVELS 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
- VII. **A MATCHING MODEL TO MEASURE COMPLIANCE BETWEEN DEPARTMENT AND STUDENT**
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
- VIII. **Embedding Patient Information into Region of Non Interests for Medical Images Using DNA Encryption**
KARAKİŞ R., GÜRKAHRAMAN K.
International Conference on Engineering Technologies (ICENTE'17), Konya, Turkey, 7 - 09 December 2017, pp.33
- IX. **IMPROVEMENT OF INCORRECT VELOCITY VECTORS IN PARTICLE IMAGE VELOCIMETRY USING ORDER STATISTICAL METHOD**
GÜRKAHRAMAN K., KARAKİŞ R., TEMEL Ü. N.
International Conference on Engineering Technologies (ICENTE'17), Konya, Turkey, 7 - 09 December 2017, pp.30
- X. **Virtual Hair Production and Hair Simulation with Position Based Dynamics**
GÜRKAHRAMAN K., YELKUVAN A. F., Karakurt Ş.
8th International Advanced Technologies Symposium (IATS'2017), 19 - 22 October 2017
- XI. **An Implementation of DNA based Security Model in Medical Data**

KARAKIŞ R, GÜRKAHRAMAN K.

The 3th International Conference on Engineering and Natural Sciences (ICENS 2017), Budapest, Hungary, 4 - 06 May 2017, pp.1105-1110

XII. Measurement of the appropriateness in career selection of the high school students by using data mining algorithms: A case study

TAKCI H, GÜRKAHRAMAN K., Yelkuvan A. F.

Federated Conference on Computer Science and Information Systems (FedCSIS), Prague, Czech Republic, 3 - 06 September 2017, pp.113-117

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

Gürkahraman K, KOSGEB, Inncreawatch, 2021 - 2023

Gürkahraman K, Project Supported by Public Organizations in Other Countries, Nöro Görüntülerde Fiber Bağlantılarının Derin Öğrenme ile Bölütlenerek İnme Hastalarının İyileşme Süreçlerinin Değerlendirilmesi, 2019 - 2020

Karakış R, Gürkahraman K, Çiğdem B, Öztoprak İ, Topaktaş A. S, Project Supported by Higher Education Institutions, Epileptik Hastalara ait Elektroensefalogram ve Manyetik Rezonans Görüntüsü Verileri için Veri Gizleme Uygulaması, 2017 - 2019

Takci H, Gürkahraman K, TUBITAK Project, Uygun bölüm seçimi için bölüm ve öğrenci arasında iki taraflı bir eşleşme sistemi tasarımlı, 2016 - 2018

Gürkahraman K, Ünsal E, Çebi Y, Project Supported by Higher Education Institutions, Izgara Desenli Lazer Görüntüsü Yardımı İle Bulunulan Ortamın Üç Boyutlu Yapısının Algılanması, 2009 - 2011

Gürkahraman K, Ünsal E, Çebi Y, TUBITAK Project, Eğrisel Ayna ve Matris Desenli Lazer Noktalar Kullanarak Çevrenin Üç Boyutlu Yapısını Oluşturan Tüm yönlü Omni Directional Bir Görüntüleme Sisteminin Geliştirilmesi, 2008 - 2009

Metrics

Publication: 26

Citation (WoS): 2

Citation (Scopus): 24

H-Index (WoS): 1

H-Index (Scopus): 3

Non Academic Experience

McGill University

US X-RAY