

Doç.Dr. Ayşe Betül OKTAY

Kişisel Bilgiler

E-posta: aoktay@yildiz.edu.tr

Web: <https://avesis.yildiz.edu.tr/aoktay>

Uluslararası Araştırmacı ID'leri

ScholarID: GBosm0sAAAAJ

ORCID: 0000-0003-0827-173X

ScopusID: 26022033900

Yoksis Araştırmacı ID: 36603

Eğitim Bilgileri

Doktora, Gebze Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Türkiye 2007 - 2011

Yüksek Lisans, Fatih Üniversitesi, Fen Bilimleri Enstitüsü, Türkiye 2004 - 2006

Lisans, Fatih Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Türkiye 2000 - 2004

Araştırma Alanları

Algoritmalar, Bilgisayarla Görme, Yapay Zeka, Bilgisayarda Öğrenme ve Örüntü Tanıma

Akademik Unvanlar / Görevler

Doç.Dr., Yıldız Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Bilgisayar Mühendisliği, 2021 - Devam Ediyor

Dr.Öğr.Üyesi, İstanbul Medeniyet Üniversitesi, Mühendislik Ve Doğa Bilimleri Fakültesi, Bilgisayar Mühendisliği, 2011 - 2021

Akademik İdari Deneyim

Bölüm Başkanı, İstanbul Medeniyet Üniversitesi, Mühendislik Ve Doğa Bilimleri Fakültesi, Bilgisayar Mühendisliği, 2017 - 2020

Bölüm Başkanı, İstanbul Medeniyet Üniversitesi, Mühendislik Ve Doğa Bilimleri Fakültesi, Bilgisayar Mühendisliği, 2014 - 2015

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayımlanan Makaleler

- Stress recognition from facial images in children during physiotherapy with serious games[Formula presented]**
Vural Ş. F., Yurdusever B., OKTAY A. B., Uzun I.
Expert Systems with Applications, cilt.238, 2024 (SCI-Expanded)
- Differentiation of lung and breast cancer brain metastases: Comparison of texture analysis and deep convolutional neural networks**
GÜLTEKİN M. A., PEKER A. A., OKTAY A. B., TÜRK H. M., Cesme D. H., Shbair A. T. M., YILMAZ T. F., Kaya A., Yasin A. I.,

ŞEKER M., et al.

Journal of Clinical Ultrasound, cilt.51, sa.9, ss.1579-1586, 2023 (SCI-Expanded)

- III. **A physiological signal database of children with different special needs for stress recognition**
Coşkun B., Ay S., Erol Barkana D., Bostancı H., Uzun I., Oktay A. B., Tuncel B., Tarakci D.
SCIENTIFIC DATA, cilt.10, sa.1, ss.382-396, 2023 (SCI-Expanded)
- IV. **Dental biometric systems: a comparative study of conventional descriptors and deep learning-based features**
OKTAY A. B., Akhtar Z., Gurses A.
MULTIMEDIA TOOLS AND APPLICATIONS, cilt.81, sa.20, ss.28183-28206, 2022 (SCI-Expanded)
- V. **The validity of an objective measurement method using the Leap Motion Controller for fingers wrist, and forearm ranges of motion**
ARMAN S. N., Oktay A. B., Tarakci D., Tarakci E., Akgul Y. S.
HAND SURGERY & REHABILITATION, cilt.40, sa.4, ss.394-399, 2021 (SCI-Expanded)
- VI. **Differential diagnosis of Parkinson and essential tremor with convolutional LSTM networks**
Oktay A. B., Kocer A.
BIOMEDICAL SIGNAL PROCESSING AND CONTROL, cilt.56, 2020 (SCI-Expanded)
- VII. **Automatic detection, localization and segmentation of nano-particles with deep learning in microscopy images**
Oktay A. B., Gurses A.
MICRON, cilt.120, ss.113-119, 2019 (SCI-Expanded)
- VIII. **Human identification with dental panoramic radiographic images**
Oktay A. B.
IET BIOMETRICS, cilt.7, sa.4, ss.349-355, 2018 (SCI-Expanded)
- IX. **Nintendo Wii assessment of Hoehn and Yahr score with Parkinson's disease tremor**
Kocer A., Oktay A. B.
TECHNOLOGY AND HEALTH CARE, cilt.24, sa.2, ss.185-191, 2016 (SCI-Expanded)
- X. **Computer aided diagnosis of degenerative intervertebral disc diseases from lumbar MR images**
Oktay A. B., Albayrak N. B., Akgul Y. S.
COMPUTERIZED MEDICAL IMAGING AND GRAPHICS, cilt.38, sa.7, ss.613-619, 2014 (SCI-Expanded)
- XI. **Extraction of left ventricle borders with local and global priors from echocardiograms**
Oktay A. B., Akgul Y. S.
MACHINE VISION AND APPLICATIONS, cilt.24, sa.7, ss.1393-1403, 2013 (SCI-Expanded)
- XII. **Simultaneous Localization of Lumbar Vertebrae and Intervertebral Discs With SVM-Based MRF**
Oktay A. B., Akgul Y. S.
IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING, cilt.60, sa.9, ss.2375-2383, 2013 (SCI-Expanded)
- XIII. **A Modular Framework for Shape- and Image-prior-based Anatomical Structure Contour Extraction**
Oktay A. B., Akgul Y. S.
JOURNAL OF MEDICAL AND BIOLOGICAL ENGINEERING, cilt.31, sa.6, ss.413-420, 2011 (SCI-Expanded)
- XIV. **Forecasting air pollutant indicator levels with geographic models 3 days in advance using neural networks**
Kurt A., Oktay A. B.
EXPERT SYSTEMS WITH APPLICATIONS, cilt.37, sa.12, ss.7986-7992, 2010 (SCI-Expanded)
- XV. **An online air pollution forecasting system using neural networks**
Kurt A., Gulbagci B., Karaca F., Alagha O.
ENVIRONMENT INTERNATIONAL, cilt.34, sa.5, ss.592-598, 2008 (SCI-Expanded)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Human Identification with Panoramic Dental Images using Mask R-CNN and SURF**
Gurses A., Oktay A. B.

5th International Conference on Computer Science and Engineering (UBMK), Diyarbakır, Türkiye, 9 - 11 Eylül 2020, ss.232-237

- II. **Tooth Restoration and Dental Work Detection on Panoramic Dental Images via CNN**
Gurses A., Oktay A. B.
2020 Medical Technologies Congress (TIPTEKNO), ELECTR NETWORK, 19 - 20 Kasım 2020
- III. **Diagnosis of COVID-19 with a Deep Learning Approach on Chest CT Slices**
Yener F. M., Oktay A. B.
2020 Medical Technologies Congress (TIPTEKNO), ELECTR NETWORK, 19 - 20 Kasım 2020
- IV. **Air Pollution Forecasting with Random Forest Time Series Analysis**
Altincop H., Oktay A. B.
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Türkiye, 28 - 30 Eylül 2018
- V. **Nanoparticle Detection from TEM Images with Deep Learning**
Güven G., Oktay A. B.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Türkiye, 2 - 05 Mayıs 2018
- VI. **Forecasting CO2 Emission with Machine Learning Methods**
Garip E., Oktay A. B.
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Türkiye, 28 - 30 Eylül 2018
- VII. **Tooth Detection with Convolutional Neural Networks**
Oktay A. B.
Medical Technologies National Congress (TIPTEKNO), Trabzon, Türkiye, 12 - 14 Ekim 2017
- VIII. **Prostate Localization from Abdominal Ultrasound Images by Using a Two-Level Approach**
Albayrak N. B., Oktay A. B., Akgül Y. S.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Türkiye, 15 - 18 Mayıs 2017
- IX. **Diagnosis of Degenerative Intervertebral Disc Disease with Deep Networks and SVM**
Oktay A. B., Akgül Y. S.
31st International Symposium on Computer and Information Sciences (ISCIS), Krakow, Polonya, 27 - 28 Ekim 2016, cilt.659, ss.253-261
- X. **PROSTATE DETECTION FROM ABDOMINAL ULTRASOUND IMAGES: A PART BASED APPROACH**
Albayrak N. B., Oktay A. B., Akgül Y. S.
IEEE International Conference on Image Processing (ICIP), Quebec City, Kanada, 27 - 30 Eylül 2015, ss.1955-1959
- XI. **SEGMENTATION OF Fe₃O₄ NANO PARTICLES IN TEM IMAGES**
Vural U., Oktay A. B.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Türkiye, 23 - 25 Nisan 2014, ss.1849-1852
- XII. **Desiccation Detection from Lumbar MR Images**
Oktay A. B., Albayrak N. B., Akgül Y. S.
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 Nisan 2013
- XIII. **Localization of the Lumbar Discs Using Machine Learning and Exact Probabilistic Inference**
Oktay A. B., Akgül Y. S.
14th International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI 2011), Toronto, Kanada, 18 - 22 Eylül 2011, cilt.6893, ss.158-165
- XIV. **Artificial Neural Networks based modelling of CO Effects of spatial parameters**
KURT A., OKTAY A. B., KARACA F., alagha O.
Information Technologies in Environmental Engineering, 1 - 03 Mayıs 2009, ss.345-356
- XV. **Echocardiographic Contour Extraction with Local and Global Priors through Boosting and Level Sets**
Oktay A. B., Akgül Y. S.
IEEE-Computer-Society Conference on Computer Vision and Pattern Recognition Workshops, Florida, Amerika Birleşik Devletleri, 20 - 25 Haziran 2009, ss.109-114
- XVI. **A Novel Level Set Based Echocardiographic Contour Extraction Method with Prior Knowledge**
OKTAY A. B., AKGÜL Y. S.
Proceedings of the British Machine Vision Conference 2008, Leeds, Birleşik Krallık, 1 - 04 Eylül 2008, ss.1-10

XVII. Prior Information Based Segmentation: A 3D Level Set Surface Matching Approach

Oktay A. B., Akgul Y. S.

23rd International Symposium on Computer and Information Sciences (ISCIS), İstanbul, Türkiye, 27 - 29 Ekim
2008, ss.419-424

Metrikler

Yayın: 32

Atıf (WoS): 323

Atıf (Scopus): 263

H-İndeks (WoS): 8

H-İndeks (Scopus): 6