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Education Information

Doctorate, Eskisehir Osmangazi University, FEN FAKÜLTESİ, MATEMATİK VE BİLGİSAYAR BİLİMLERİ BÖLÜMÜ, Turkey
2015 - 2019

Postgraduate, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK
MÜHENDİSLİĞİ BÖLÜMÜ, Turkey 2011 - 2015

Undergraduate, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Bilgisayar Mühendisliği Bölümü,
Turkey 2002 - 2007

Undergraduate Double Major, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Elektrik-Elektronik
Mühendisliği Bölümü, Turkey 2002 - 2007

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Computer Sciences, Computer Vision, Artificial Intelligence, Computer Learning and Pattern Recognition, Engineering
and Technology

Academic Titles / Tasks

Expert, Eskisehir Osmangazi University, REKTÖRLÜK, 2007 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- YOLO-V5 based deep learning approach for tooth detection and segmentation on pediatric panoramic radiographs in mixed dentition**
Beser B., Reis T., BERBER M. N., Topaloglu E., Gungor E., Kılıç M. C., DUMAN S., ÇELİK Ö., KURAN A., BAYRAKDAR İ. Ş.
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- III. **Automatic maxillary sinus segmentation and pathology classification on cone-beam computed tomographic images using deep learning**
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- IV. **The prediction of semen quality based on lifestyle behaviours by the machine learning based models**
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- V. **The early prediction of gestational diabetes mellitus by machine learning models**
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- VII. **Predicting mothers' exclusive breastfeeding for the first 6 months: Interface creation study using machine learning technique**
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- VIII. **Prediction of extraction difficulty for impacted maxillary third molars with deep learning approach**
Torul D., Akpınar H., BAYRAKDAR İ. Ş., ÇELİK Ö., ORHAN K.
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- IX. **A Deep Learning Approach to Automatic Tooth Caries Segmentation in Panoramic Radiographs of Children in Primary Dentition, Mixed Dentition, and Permanent Dentition**
Asci E., Kilic M., ÇELİK Ö., Cantekin K., Bircan H. B., BAYRAKDAR İ. Ş., ORHAN K.
Children, vol.11, no.6, 2024 (SCI-Expanded)
- X. **Tooth numbering and classification on bitewing radiographs: an artificial intelligence pilot study**
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- XI. **Artificial intelligence system for automatic maxillary sinus segmentation on cone beam computed tomography images**
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- XIV. **An artificial intelligence study: automatic description of anatomic landmarks on panoramic radiographs in the pediatric population**
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- XV. **A deep learning algorithm for classification of oral lichen planus lesions from photographic images: A retrospective study**
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- XVI. **Deep-Learning-Based Automatic Segmentation of Parotid Gland on Computed Tomography Images**
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- XVII. **Detecting the presence of taurodont teeth on panoramic radiographs using a deep learning-based convolutional neural network algorithm**
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- XVIII. **Automated Mesiodens Detection with Deep-Learning-Based System Using Cone-Beam Computed Tomography Images**
Syed A. Z., ÇELİK ÖZEN D., Abdelkarim A. Z., DUMAN Ş. B., BAYRAKDAR İ. Ş., DUMAN S., ÇELİK Ö., ORHAN K.
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- XIX. **Automatic Feature Segmentation in Dental Periapical Radiographs**
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- XX. **Deep-learning approach for caries detection and segmentation on dental bitewing radiographs**
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- XXI. **Convolutional Neural Network Performance for Sella Turcica Segmentation and Classification Using CBCT Images**
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- XXII. **Diagnostic charting of panoramic radiography using deep-learning artificial intelligence system**
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- XXIV. **Combined clinical and specific positron emission tomography/computed tomography-based radiomic features and machine-learning model in prediction of thymoma risk groups**
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Nuclear medicine communications, vol.43, no.5, pp.529-539, 2022 (SCI-Expanded)
- XXV. **Evaluation of acute hematological toxicity by machine learning in gynecologic cancers using postoperative radiotherapy.**
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- XXVI. **Performance of a convolutional neural network algorithm for tooth detection and numbering on periapical radiographs**
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- XXVII. **A DEEP-LEARNING MODEL FOR IDIOPATHIC OSTEOSCLEROSIS DETECTION ON PANORAMIC RADIOGRAPHS**
Yesiltepe S., Bayrakdar İ. Ş., Orhan K., Çelik Ö., Bilgir E., Aslan A. F., Odabaş A., Costa A. L. F., Jagtap R.
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- XXVIII. **A U-Net Approach to Apical Lesion Segmentation on Panoramic Radiographs**
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- XXIX. **Application of Machine Learning Techniques for Enuresis Prediction in Children**
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EUROPEAN JOURNAL OF PEDIATRIC SURGERY, vol.31, no.05, pp.414-419, 2021 (SCI-Expanded)

- XXX. **Artificial intelligence system for automatic deciduous tooth detection and numbering in panoramic radiographs.**
Kılıç M. C., Bayrakdar İ. Ş., Çelik Ö., Bilgir E., Orhan K., Aydın O. B., Kaplan F. A., Sağlam H., Odabaş A., Aslan A. F., et al.
Dento maxillo facial radiology, vol.50, no.6, pp.20200172, 2021 (SCI-Expanded)
- XXXI. **An artificial intelligence approach to automatic tooth detection and numbering in panoramic radiographs**
Bilgir E., Bayrakdar İ. Ş., Çelik Ö., Orhan K., Akkoca F., Sağlam H., Odabaş A., Aslan A. F., Ozcetin C., Kılı M., et al.
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- XXXII. **An artificial intelligence proposal to automatic teeth detection and numbering in dental bite-wing radiographs**
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- XXXIII. **A pilot study of a deep learning approach to submerged primary tooth classification and detection.**
Caliskan S., Tuloglu N., Çelik Ö., Ozdemir C., Kizilaslan S., Bayrak Ş.
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- XXXIV. **Detection of impacted teeth using deep learning technique**
ÇELİK Ö.
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- XXXV. **Prediction of Radiation Pneumonitis With Machine Learning in Stage III Lung Cancer: A Pilot Study.**
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- XXXVI. **Evaluation of Prognosis in Nasopharyngeal Cancer Using Machine Learning**
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TECHNOLOGY IN CANCER RESEARCH & TREATMENT, vol.19, 2020 (SCI-Expanded)
- XXXVII. **Wear behavior of SiC-reinforced surface composite Al7075-T651 aluminum alloy produced using friction stir processing**
SERT A., ÇELİK Ö.
Indian Journal of Engineering and Materials Sciences, vol.21, no.1, pp.35-43, 2014 (SCI-Expanded)

Articles Published in Other Journals

- I. **DEVELOPMENT OF MOBILE EDUCATIONAL MATERIAL FOR NURSES: A PROCESS IMPROVEMENT STUDY**
ÖZKARAMAN A., KERSU Ö., UZGÖR F., ÇAKIRLI M., ÇELİK Ö., DANACI B., AYDEMİR M.
TURKISH ONLINE JOURNAL OF DISTANCE EDUCATION, vol.25, 2024 (ESCI)
- II. **A Deep Learning Approach to Automatic Tooth Detection and Numbering in Panoramic Radiographs: An Artificial Intelligence Study**
MERTOĞLU D., KESER G., NAMDAR PEKİNER F. M., BAYRAKDAR İ. Ş., ÇELİK Ö., ORHAN K.
CLINICAL AND EXPERIMENTAL HEALTH SCIENCES, vol.13, no.4, pp.883-888, 2023 (ESCI)
- III. **Detecting Pulp Stones with Automatic Deep Learning in Bitewing Radiographs: A Pilot Study of Artificial Intelligence**
ALTINDAĞ A., Uzun S., BAYRAKDAR İ. Ş., ÇELİK Ö.
European annals of dental sciences (Online), vol.50, no.1, pp.12-16, 2023 (Peer-Reviewed Journal)
- IV. **Response Prediction in Lung SBRT with Artificial Intelligence**
ETİZ D., Yakar M., AK G., KÜTRİ D., ÇELİK Ö., METİNTAŞ M.
Turk Onkoloji Dergisi, vol.38, no.3, pp.288-294, 2023 (ESCI)
- V. **Segmentation of acute pulmonary embolism in computed tomography pulmonary angiography using the deep learning method** Derin öğrenme yöntemiyle akut pulmoner embolinin bilgisayarlı tomografik pulmoner anjiyografide segmentasyonu

- AYDIN N., CİHAN Ç., ÇELİK Ö., ASLAN A. F., ODABAŞ A., ALATAŞ F., YILDIRIM H.
Tuberkuloz ve Toraks, vol.71, no.2, pp.131-137, 2023 (ESCI)
- VI. **A deep learning approach for masseter muscle segmentation on ultrasonography**
KESER G., BAYRAKDAR İ. Ş., NAMDAR PEKİNER F. M., ÇELİK Ö., ORHAN K.
JOURNAL OF ULTRASONOGRAPHY, vol.22, no.91, 2022 (ESCI)
- VII. **Segmentation of orbital and periorbital lesions detected in orbital magnetic resonance imaging by deep learning method**
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Polish Journal of Radiology, vol.87, no.1, 2022 (ESCI)
- VIII. **Derin Öğrenme Yöntemi Kullanılarak Geliştirilen Yapay Zekâ Yöntemi ile Panoramik Radyografilerde Dental Restorasyonların Otomatik Tespiti ve Sınıflandırılması: Metodolojik Çalışmalar**
AŞÇI E., KILIÇ M., ÇELİK Ö., BAYRAKDAR İ. Ş., BİLGİR E., ASLAN A. F., ODABAŞ A., ORHAN K.
Türkiye Klinikleri Dış Hekimliği Bilimleri Dergisi, vol.28, 2022 (Peer-Reviewed Journal)
- IX. **Can the blockchain-enabled interplanetary file system (Block-IPFS) be a solution for securely transferring imaging data for artificial intelligence research in oral and maxillofacial radiology?**
Orhan K., Bayrakdar İ. Ş., Celik Ö., Ayan B., Polat E.
IMAGING SCIENCE IN DENTISTRY, vol.51, no.3, pp.337-339, 2021 (ESCI)
- X. **Dış Hekimliğinde Yapay Zeka**
SAĞLAM H., ARI T., BAYRAKDAR İ. Ş., BİLGİR E., UĞURLU M., ÇELİK Ö., ORHAN K.
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- XI. **TF-IDF, Word2vec ve Fasttext Vektör Model Yöntemleri ile Türkçe Haber Metinlerinin Sınıflandırılması**
ÇELİK Ö., Koç B. C.
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- XIII. **Contribution of artificial intelligence applications developed with the deep learning method to the diagnosis of COVID-19 pneumonia on computed tomography**
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- XIV. **Yeniden Örneklemme Teknikleri Kullanarak SMS Verisi Üzerinde Metin Sınıflandırma Çalışması**
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- XV. **Prediction of Survival and Recurrence Patterns by Machine Learning in Gastric Cancer Cases Undergoing Radiation Therapy and Chemotherapy**
AKÇAY M. Ç., ETİZ D., Çelik Ö.
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- XVI. **Success of artificial intelligence system in determining alveolar bone loss from dental panoramic radiography images**
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- XVII. **Sign2Text: Konvolüsyonel Sinir Ağları Kullanarak Türk İşaret Dili Tanıma**
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- XIX. **SENTIMENT ANALYSIS FROM SOCIAL MEDIA COMMENTS**
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- XX. **Gender Prediction from Social Media Comments with Artificial Intelligence**
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- XXI. **Prediction of The Prices of Second-Hand Cars**
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- XXIII. **A Research on Machine Learning Methods and Its Applications**
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- XXIV. **Tribological behaviours of lubricating oils with CNT and Si3N4nanoparticle additives**
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Refereed Congress / Symposium Publications in Proceedings

- I. **MEASUREMENT OF AORTIC ROOT DIAMETER IN COMPARISON WITH EMERGENCY ECHOCARDIOGRAPHY AND COMPUTED TOMOGRAPHY, AND TESTING WITH MACHINE LEARNING**
ŞEVİK Ö. E., ACAR N., ÇELİK Ö., ÇANAKÇI M. E., AY Y., AYDIN N., BİLGİN M.
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- II. **Annelerin İlk 6 Ay Sadece Anne Sütü Verme Durumlarının Makine Öğrenimi Tekniği İle Tahminlemesi**
AÇIKGÖZ A., ÇAKIRLI M., MIZRAK ŞAHİN B., ÇELİK Ö.
4. Uluslararası Akdeniz Pediatri Hemşireliği ve 3. Uluslararası 8. Ulusal Pediatri Hemşireliği Kongresi, Erzurum, Turkey, 01 June 2023
- III. **Education Material for Nurses: Application of Smart Telephone**
ÖZKARAMAN A., KERSU Ö., UZGÖR F., ÇAKIRLI M., ÇELİK Ö., Danacı B., AYDEMİR M.
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- IV. **The Effect of In -Service Training Structured According To Gagne's Nine Teaching 45 Events on the Knowledge Level of Nurses**
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- V. **Decision Making with Machine Learning in Emergency Department**
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- VI. **DETECTION OF PULP STONES WITH AUTOMATIC DEEP LEARNING IN BITEWING RADIOGRAPHS: A PILOT STUDY OF ARTIFICIAL INTELLIGENCE**
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- VII. **How to improve the image recognition by a better annotation of a medical image in an artificial intelligence**
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12th ANNUAL CONGRESS of the EUROPEAN SOCIETY OF PAEDIATRIC ENDOSCOPIC SURGEONS, Barcelona, Spain, 28 September 2022

- VIII. **PREDICTION OF ACUTE HEMATOLOGIC TOXICITY ASSOCIATED WITH RADIOTHERAPY IN RECTUM CANCER WITH ARTIFICIAL INTELLIGENCE**
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- IX. **A deep learning algorithm for classification of oral lichenoid lesions from photographic images: A retrospective study**
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15th Biennial Congress of European Association of Oral Medicine, Porto, Portugal, 24 September 2021
- X. **TEXT CLASSIFICATION STUDY WITH SMS DATA**
ÇELİK Ö., KAPLAN G.
HEZARFEN International Congress of Science, Mathematics and Engineering Sciences, İzmir, Turkey, 08 November 2019
- XI. **GENDER ANALYSIS IN SOCIAL MEDIA USING MACHINE LEARNING TECHNIQUES**
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Supported Projects

- Çelik Ö., Aslan A. F., Bilgir E., Uğurlu M., Bayrakdar İ. Ş., KOSGEB, Yapay Zeka Destekli Otomatik Ortodontik Analiz Yazılımı, 2022 - 2024
- Çelik Ö., Büyük K., TUBITAK Project, İmece: Çevrimiçi Zeki Akran Öğrenme Sisteminin Geliştirilmesi, 2020 - 2022
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Metrics

Publication: 93
Citation (WoS): 185
Citation (Scopus): 509
H-Index (WoS): 7
H-Index (Scopus): 13

Non Academic Experience

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