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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**
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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**
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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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- XXIII. **Optical properties of Nb2O5 doped ZnO nanocomposite thin film deposited by thermionic vacuum arc**
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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**
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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.
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- 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**
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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**
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- XI. **TF-IDF, Word2vec ve Fasttext Vektör Model Yöntemleri ile Türkçe Haber Metinlerinin Sınıflandırılması**
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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**
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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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11. IGICC, İstanbul, Turkey, 02 December 2021, pp.10-11
- 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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Non Academic Experience

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