Lect. OKTAY YILDIRIM

Personal Information

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Education Information

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Dr), Turkey 2014 - 2023
Postgraduate, Ege University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Yl) (Tezli), Turkey 2010 - 2014
Undergraduate, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey 2005 - 2010

Foreign Languages

English, A1 Beginner

Dissertations

Doctorate, Algorithmic Learning of Clinically Acceptable Levels of Laboratory Test Results From Electronic Medical Records: Personalized Reference Intervals, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Computer Engineering, 2023
Postgraduate, Çizge veri tabanlarının incelenmesi ve çizge veri tabanı yaratılması, Ege University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Yl) (Tezli), 2014

Research Areas

algorithms, Software Security, Computer Vision, Application Based Architecture, Database and Data Structures, Artificial Intelligence, Computer Learning and Pattern Recognition, Computer Learning, Automated Problem Solving, Theorem Proving and Logical Reasoning, Pattern Recognition and Image Processing, Neural Networks, Software, Biomedical Image Processing, Clinical Robots

Academic Titles / Tasks

Lecturer, Dokuz Eylul University, Rektörlük, 2013 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

I. **The effect of an artificial intelligence algorithm on chest X-ray interpretation of radiology residents.**
    Pekçevik Y., Orbatu D., Güngör F., Yıldırım O., Yaşar E., Yimer M. A., Şişman A., Emiroğlu M., Dao L., Cohen J. P., et al.
    The British journal of radiology, vol.95, no.1139, pp.20210688, 2022 (SCI-Expanded)

Articles Published in Other Journals

I. **An Example of Application of Machine Learning Method to Laboratory Medicine: Determination of Newborn Reference Ranges**
YILDIRIM O., AKTAŞ Ö., ŞİŞMAN A., Orbatu D., ALKAN ÖZDEMİR S., AYDIN A., Yaşar E., Yimer M. A., Sevinç S.
Forbes tıp dergisi (Online), vol.4, pp.95-102, 2023 (Peer-Reviewed Journal)

II. **A New Paradigm For Predicting Past And Future Out of Control Events In Internal Quality Control: Gaussian Process For Machine Learning**
SEVİNÇ S., ŞİŞMAN A., Başok B. İ., AKŞİT M., Bilgi P., YILDIRIM O., Yaşar E., ÇOLAK A., DUMAN C., AKBULUT G.
Journal of Artifical Intelligence in Health Sciences, vol.2, no.3, pp.19-26, 2022 (Peer-Reviewed Journal)

III. **Monitoring Medical Interventions for Multidimensional Evaluation of Changes in Patient Test Results with Principal Component Analysis**
Yimer M. A., Aktaş Ö., Sevinç S., Şişman A., Yıldırım O., Yaşar E.
Balkan Journal of Electrical and Computer Engineering, vol.9, no.2, pp.178-186, 2021 (Peer-Reviewed Journal)

IV. **Estimating How Many Phlebotomists are Required in the Phlebotomy Unit: An Artificial Intelligence Study**
ORBATU D., YILDIRIM O., PAKDEMİRLİ A., YAŞAR E., EĞLENOĞLU ALAYGUT D., SEVİNÇ S., ŞİŞMAN A. R.
Medical Science and Discovery, vol.7, no.5, pp.489-493, 2020 (Peer-Reviewed Journal)

V. **Predicting Patient Wait Times in the Phlebotomy Unit**
Orbatu D., YILDIRIM O., Yaşar E., ŞİŞMAN A., Sevinç S.
Global Journal of Medical Research, pp.1-5, 2020 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **DETERMINATION OF NEONATAL REFERENCE RANGES USING MACHINE LEARNING METHOD**
Yıldırım O., Aktaş Ö., Orbatu D., Alkan Özdemir S., Şişman A. R., Sevinç S.
III. Uluslararası Sağlıkta Yapay Zeka Kongresi, İzmir, Turkey, 11 - 13 May 2022, pp.55-56

II. **Yapay Zeka İle Pediatrik Referans Aralıklarının Değerlendirilmesi**
SOBAY D., SEVİNÇ S., YILDIRIM O., ORBATU D., ŞİŞMAN A. R.
Uluslararası Sağlıkta Yapay Zeka Kongresi, 16 - 18 January 2020, vol.30, pp.22-24

III. **Yapay Zeka Tabanlı Örnek Uygulamanın Geliştirilmesi**
YILDIRIM O.
Uluslararası Sağlıkta Yapay Zeka Kongresi 2020 Hazırlık Kampı, İzmir, Turkey, 16 January 2020

IV. **Experimenting with Some Data Mining Techniques to Establish Pediatric Reference Intervals for Clinical Laboratory Tests**
DENİZ E., YILDIRIM O., ORBATU D., SOBAY D., ŞİŞMAN A., AYDIN A., SEVİNÇ S.
International Conference on Data Science, Machine Learning and Statistics - 2019(DMS-2019), Van, Turkey, 26 - 29 June 2019, pp.44

V. **Experimenting With Some Data Mining Techniques to Establish Pediatric Reference Intervals for Clinical Laboratory Tests**
ERASLAN D., YILDIRIM O., ORBATU D., Sobay D., Şişman A. R., AYDIN A., SEVİNÇ S.
International Conference on Data Science, Machine Learning and Statistics, Van, Turkey, 26 June 2019

VI. **Predicting Patient Waiting Time in Phlebotomy Units Using a Deep Learning Method**
Javadifard H., Sevinc S., YILDIRIM O., Orbatu D., Yasar E., Sisman A.
Innovations in Intelligent Systems and Applications Conference (ASYU), İzmir, Turkey, 31 October - 02 November 2019, pp.436-439

VII. **System for Planning and Performing Staging of Medical Investigations for Diagnosis**
Yasar E., YILDIRIM O., Miman Y. E., Şişman A., Sevinç S.
3rd World Conference on Technology, Innovation and Entrepreneurship, WOCTINE 2019, İstanbul, Turkey, 21 - 23 June 2019, vol.158, pp.420-425

VIII. **USE OF ARTIFICIAL INTELLIGENCE IN PHLEBOTOMY UNIT**
Orbatu D., YILDIRIM O.
III. Türkiye in vitro Diyagnostik (IVD) Sempozyumu Endokrin ve Metabolik Hastalıklar Tanıdan Tedaviye
Biyobelirteçler, İzmir, Turkey, 28 February - 02 March 2018, vol.43, pp.22-29

Metrics

Publication: 14
Citation (WoS): 4
Citation (Scopus): 5
H-Index (WoS): 1
H-Index (Scopus): 1