

Assoc. Prof. BURÇIN KURT

Personal Information

Office Phone: [+90 462 377 5664](tel:+904623775664)

Email: burcinkurt@ktu.edu.tr

Other Email: burcinnkurt@gmail.com

Web: <https://avesis.ktu.edu.tr/burcinkurt>

International Researcher IDs

ORCID: 0000-0001-5781-2382

Publons / Web Of Science ResearcherID: AAT-1540-2020

ScopusID: 54391205100

Yoksis Researcher ID: 117480

Education Information

Doctorate, Karadeniz Technical University, -, Bilgisayar Mühendisliği, Turkey 2007 - 2014

Postgraduate, Karadeniz Technical University, -, Bilgisayar Mühendisliği, Turkey 2005 - 2007

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey 2000 - 2005

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Education Management and Planning, TÜBİTAK 2237 Proje Eğitimi Etkinlikleri Destekleme Programı, TÜBİTAK, 2014

Dissertations

Doctorate, MAMOGRAFİ GÖRÜNTÜLERİNİN YORUMLANMASIYLA BİLGİSAYARLI TEŞHİS SİSTEMİNİN TASARIMI, Karadeniz Technical University, -, Bilgisayar Mühendisliği, 2014

Postgraduate, Bilgisayar ile psikolojik durum değerlendirilmesi, Karadeniz Technical University, -, Bilgisayar Mühendisliği, 2007

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Biostatistics and Medical Informatics, Computer Sciences, bioinformatics, Artificial Intelligence, Computer Learning and Pattern Recognition, Biomedical Engineering, Biomedical Image Processing, Biomedical Image Processing, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Karadeniz Technical University, Tıp Fakültesi, Temel Tıp, 2016 - Continues
Lecturer PhD, Karadeniz Technical University, Tıp Fakültesi, Temel Tıp, 2014 - 2016
Lecturer, Karadeniz Technical University, Tıp Fakültesi, Temel Tıp, 2009 - 2014

Courses

Eczacılıkta Bilgisayar ve Uygulamaları, Undergraduate, 2021 - 2022
Introduction to Machine Learn. with Phyton, Doctorate, 2021 - 2022
İstatistiksel Öğrenme Teknikleri, Doctorate, 2021 - 2022
R İle İstatistiksel Programlamaya Giriş, Postgraduate, 2021 - 2022
Data Structures and Algorithms, Postgraduate, 2020 - 2021
Biyostatistik, Postgraduate, 2020 - 2021
Web Tasarımı, Undergraduate, 2020 - 2021
İstatistik, Undergraduate, 2020 - 2021
Karar Verme Sür.İstatistiksel Yönt, Doctorate, 2020 - 2021
Introduction to Deep Learning, Postgraduate, 2018 - 2019
R ile Biyoinformatikte Makine Öğrenmesi, Doctorate, 2017 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Diagnostic models for predicting malignancy in thyroid nodules classified as Bethesda Category III in an endemic region**
Kasap Z., KURT B., Özsağır E., ERCİN M. E., GÜNER A.
Diagnostic Cytopathology, vol.52, no.4, pp.200-210, 2024 (SCI-Expanded)
- II. **Prediction of gestational diabetes using deep learning and Bayesian optimization and traditional machine learning techniques.**
Kurt B., Gürlek B., Keskin S., Özdemir S., Karadeniz Ö., Kırkbir İ., Kurt T., Ünsal S., Kart C., Baki N., et al.
Medical & biological engineering & computing, vol.61, no.7, pp.1649-1660, 2023 (SCI-Expanded)
- III. **A novel computer based risk prediction model for vocal cord palsy before thyroidectomy**
KURT B., BUÇAN KIRKBİR İ., Kurt T., GÜNER A., ULUŞAHİN M.
COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE, vol.236, 2023 (SCI-Expanded)
- IV. **A prospective study for gestational diabetes mellitus: Analysis of risk factors in Turkish women for early prediction**
KURT B., Gurlek B., Keskin S., Kurt T., Kırkbir I. B., KART C., ÖZDEMİR S., Baki N., ÜNSAL S., TURHAN K.
INTERNATIONAL JOURNAL OF GYNECOLOGY & OBSTETRICS, vol.161, no.2, pp.525-535, 2023 (SCI-Expanded)
- V. **A novel automatic suspicious mass regions identification using Havrda & Charvat entropy and Otsu's N thresholding**
Kurt B., Nabiyev V. V., Turhan K.
COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE, vol.114, no.3, pp.349-360, 2014 (SCI-Expanded)
- VI. **Estimation of Student Success with Artificial Neural Networks**
TURHAN K., KURT B., Engin Y. Z.
EGITIM VE BILIM-EDUCATION AND SCIENCE, vol.38, no.170, pp.112-120, 2013 (SSCI)
- VII. **Down syndrome recognition using local binary patterns and statistical evaluation of the system**
Burcin K., Vasif N. V.
EXPERT SYSTEMS WITH APPLICATIONS, vol.38, no.7, pp.8690-8695, 2011 (SCI-Expanded)
- VIII. **Computer based medicine education: Improved skin segmentation using YCbCr color space**
TURHAN K., KURT B.
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART B-SOCIAL AND EDUCATIONAL STUDIES, vol.2, pp.1-20, 2010 (SCI-Expanded)

Articles Published in Other Journals

- I. **CLINICAL DECISION SUPPORT SYSTEM FOR EARLY DIAGNOSIS OF HEART ATTACK USING MACHINE LEARNING METHODS**
KURT B., BUÇAN KIRK BİR İ.
Eskişehir Technical University Journal of Science and and Technology A- Applied Sciences and Engineering, vol.24, no.2, pp.107-120, 2023 (Peer-Reviewed Journal)
- II. **RACE RECOGNITION FOR MALES USING LOCAL BINARY PATTERN AND PERFORMANCE EVALUATION OF THE SYSTEM**
Nabiyev V., Kurt B., Nebioğlu A.
Journal of Modern Technology and Engineering, vol.6, no.3, pp.191-204, 2021 (Peer-Reviewed Journal)
- III. **AN AUTOMATED COMPUTER-AIDED DETECTION (CADe) AND DIAGNOSIS (CADx) SYSTEM FOR BREAST MICROCALCIFICATIONS IN MAMMOGRAMS**
KURT B., NABIYEV V., TURHAN K.
Selcuk University Journal of Engineering ,Science and Technology, vol.6, no.3, pp.355-376, 2018 (Peer-Reviewed Journal)
- IV. **Developing Questionnaires as a Tool of Collecting Information for Program Evaluation in Medical Education**
TURHAN K., KURT B., YAZAĞAN A., TOPRAK U., ÜNSAL S.
Journal of Medical Education and Informatics, vol.3, no.2, pp.11-19, 2017 (Peer-Reviewed Journal)
- V. **Yapay Sinir Ağları ile Öğrencilerde Alkol Tüketimi Koruyucu Tanı Sistemi**
AYDIN KASAP Z., KURT B., TURHAN K.
Yönetim Bilişim Sistemleri Dergisi, vol.1, pp.40-50, 2016 (Peer-Reviewed Journal)
- VI. **Facial Expression Recognition**
NABIYEV V., KURT B.
Scientific News, vol.5, no.6, pp.44-47, 2007 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Predicting risk of death after myocardial infarction using machine learning methods**
Buçan Kırkbir İ., Güner A., Kurt B.
14.Tıp Bilişimi Kongresi , İzmir, Turkey, 16 - 18 March 2023
- II. **Yapısal Eşitlik Modellemesi Uygulamalarının Raporlanması: Bir Kontrol Listesi**
Aydın Kasap Z., Kurt B., Turhan K.
23. Ulusal ve 6. Uluslararası Biyoistatistik Kongresi, Ankara, Turkey, 26 October - 29 November 2022, pp.1-2
- III. **Covid-19 Salgını Sürecinde Tıp Fakültesi Öğretim Üyelerinin Uzaktan Eğitime Yönelik Tutum Ve Görüşlerinin Değerlendirilmesi: Bir Anket Çalışması**
Aydın Kasap Z., Kurt B., Turhan K., Pulathan Z.
13. TIP BİLİŞİMİ KONGRESİ, İzmir, Turkey, 24 March - 27 April 2021, pp.223-229
- IV. **Veri Biliminde Eksik Veri Analizi: Multiple Skleroz Veri Seti Örneği**
Buçan Kırkbir İ., Kurt B., Boz C., Terzi M.
13. Tıp Bilişimi Kongresi, 24 - 27 March 2021
- V. **KTÜ Tıp Fakültesi'nde Web 2.0 Uygulamaları**
TURHAN K., KURT B., ENGİN Y. Z.
Ulusal Tıp Bişimi Kongresi, Cyprus (Kkctc)
- VI. **SAĞLIK-NET Project in Turkey and HL7 v3 Implementation**
TURHAN K., KURT B., UZUN YAYLACI E.
International Conference on Medical Informatics, Italy
- VII. **Live Search For Medical Test Selection By Using Association Rule Mining**
TURHAN K., Engin Y. Z., KURT B.

2nd WORLD CONFERENCE on INFORMATION TECHNOLOGY - WCIT-2011, Antalya, Turkey

- VIII. **Yapay Sinir Ağları ile Down Sendromunun Tanınması**
KURT B., NABIYEV V., TURHAN K.
Ulusal Tıp Bilişimi Kongresi 2011, Antalya, Turkey
- IX. **Detection of Differentially Expressed Genes Between Normal and Autistic Individuals Using Similarity and Clustering Methods**
ÇAKMAK ŞİLBİR G. M., KURT B.
Eurasian Congress on Molecular Biotechnology ECOMB 2019, 19 - 21 September 2019
- X. **Handling missing value using multiple imputation approach**
BUÇAN KIRKBİR İ., KURT B.
11. Ulusal Tıp Bilişimi Kongresi, Ankara, Turkey, 16 - 17 November 2018, pp.9-13
- XI. **An Automatic Mass Detection System in Mammograms Using Multi-Layer Feedforward and Probabilistic Neural Networks**
KURT B., NABIYEV V., TURHAN K.
11. Ulusal Tıp Bilişimi Kongresi 16-17 Kasım 2018, Ankara, Turkey, 16 - 17 November 2018
- XII. **Tıp Fakültesi Öğrencilerinin Öğrenme Stillerinin Belirlenmesi: Kapsamlı bir Yapısal Eşitlik Modellemesi için Ön Çalışma**
TURHAN K., KURT B., AYDIN KASAP Z., ÜNSAL S., MOLLAHASANOĞLU E., KALAYCI E., ÇAKMAK ŞİLBİR M. G., BAYKAL Y., YÜRÜYEN M., PAK A., et al.
XX. Ulusal ve III. Uluslararası Biyoistatistik Kongresi, Gaziantep, Turkey, 26 October 2018
- XIII. **PLANNING OF COURSE CONTENTS, LEARNING OUTCOMES AND COURSE PROGRAM ONCORE COMPETENCIES IN BIOINFORMATICS PhD DEGREE EDUCATION**
TURHAN K., KURT B., ÜNSAL S., ŞİLBİR G. M. Ç.
The International Symposium on Health Informatics and Bioinformatics 2018, Turkey, 25 - 27 October 2018, pp.56
- XIV. **Music, Genetics and Bioinformatics: An Introductory Review**
TURHAN K., ÜNSAL S., KURT B.
The International Symposium on Health Informatics and Bioinformatics 2018, 25 - 27 October 2018, pp.96
- XV. **"Tıp Fakültesi Öğrencilerinin Öğrenme Stillerinin Belirlenmesi: Kapsamlı bir Yapısal Eşitlik Modellemesi için Ön Çalışma"**
TURHAN K., KURT B., AYDIN KASAP Z., ÜNSAL S., MOLLAHASANOĞLU E., KALAYCI E., ÇAKMAK ŞİLBİR M. G., BAYKAL Y., YÜRÜYEN M., PAK A., et al.
XX. Ulusal ve III. Uluslararası Biyoistatistik Kongresi, Gaziantep, Turkey, 26 October - 29 November 2018, pp.20
- XVI. **Kadınlarda HPV Gelişme Riski İçin Bir Tahmin Model Önerisi**
KESKİN S., BAKI N., TURHAN K., KURT B., BULUK KUZU M., KESKİN D. D., AYDIN KASAP Z.
XX. Ulusal ve III. Uluslararası Biyoistatistik Kongresi, Trabzon, Turkey, 26 October - 29 November 2018, pp.30
- XVII. **Adölesan Dönemde Alkol Tüketimi Risk Faktörlerinin Belirlenmesi ve Risk Tanı Sistemi Modeli**
AYDIN KASAP Z., KURT B., TURHAN K.
XIX. Ulusal ve II. Uluslararası Biyoistatistik Kongresi, Antalya, Turkey, 25 - 28 October 2017, pp.25
- XVIII. **Radyoterapi Yanıtındaki Değişimleri Etkileyen İnsan Genlerinin Model Organizmalar Yardımıyla Çıkarımı**
KURT B., ÜNSAL Ü., ÜNSAL S., TURHAN K.
Uluslararası Katılımlı 10. Tıp Bilişimi Kongresi, Antalya, Turkey, 13 - 15 October 2017
- XIX. **Psoriasis (Sedef) Tanısında Yardımcı Klinik Karar Destek Sistemi Modeli**
Buçan Kırkbir İ., Kurt B.
X. ULUSLARARASI KATILIMLI TIP BİLİŞİMİ KONGRESİ, Antalya, Turkey, 12 - 15 October 2017
- XX. **A framework for applying bioinformatics analysis of drug resistance to mathematical tumor models**
ÜNSAL S., ACAR A. C., İTİK M., KURT B., ÜNSAL Ü., TURHAN K.
NGS Tech Applications Congress 2017, United States Of America, 25 - 26 July 2017
- XXI. **A Method for Exploring Roots of Radiation Resistance in Cancer**
TURHAN K., KURT B., ÜNSAL S., İTİK M., ÜNSAL Ü.
NGS&Clinical Applications, Philadelphia, United States Of America, 25 - 29 July 2017

- XXII. **Survival and Enrichment Analyzes of Cisplatin-Based Drug Resistance-Related Genes for Non-Small Cell Lung Cancer**
KURT B., ÜNSAL S., BUÇAN KIRKBİR İ., TURHAN K.
10th International Symposium on Health Informatics and Bioinformatics, Cyprus (Kktc), 28 - 30 June 2017
- XXIII. **A Computer Aided Diagnosis System for Heart Attack Using Decision Tree**
BUÇAN KIRKBİR İ., KURT B., TURHAN K.
10 th International Symposium on Health Informatics and Bioinformatics, (HIBIT), 28 - 30 June 2017
- XXIV. **Svm İle Tip 2 Diyabet Karar Destek Sistemi**
BUÇAN KIRKBİR İ., KURT B., TURHAN K.
Tıp Bilişiminde Yenilikler Sempozyumu, Ankara, Turkey, 25 March 2017, pp.1
- XXV. **Küçük Hücreli Dışı Akciğer Kanseri için Cisplatin Tabanlı İlaç Direnci ile İlişkili Genlerin Yaşam Analizleri**
TURHAN K., KURT B., ÜNSAL S.
Tıp Bilişiminde Yenilikler Sempozyumu, 2017, Ankara, Turkey, 25 March 2017
- XXVI. **Akut Apandisit Nedeniyle Opere Edilen Hastaların Kümeleme Yöntemi İle Profillerinin Belirlenmesi**
TURHAN K., KURT T., KURT B., BUÇAN KIRKBİR İ.
Tıp Bilişiminde Yenilikler Sempozyumu, Ankara, Turkey, 25 March 2017, pp.1
- XXVII. **Karar Ağacı ve Naive Bayes ile Malign Plevral Mezotelyoma Tanı Sistemi**
AYDIN KASAP Z., KURT B., TURHAN K.
Tıp Bilişiminde Yenilikler Sempozyumu, Ankara, Turkey, 24 - 25 March 2017, pp.10
- XXVIII. **Selection of Appropriate Agreement Statistic in Binary Diagnostic Tests**
Aydın Kasap Z., Kurt B., Yavuz Y., Albayrak M., Turhan K.
Medical Technologies National Congress (TIPTEKNO), Trabzon, Turkey, 12 - 14 October 2017
- XXIX. **A Missing Data Imputation Approach Using Clustering and Maximum Likelihood Estimation**
ALBAYRAK M., TURHAN K., KURT B.
Medical Technologies National Congress (TIPTEKNO), Trabzon, Turkey, 12 - 14 October 2017
- XXX. **A Gentle Introduction to Network Biology Analysis Methods**
ÜNSAL Ü., KURT B., TURHAN K.
18.Ulusal Biyoistatistik Kongresi ve 1. Uluslararası Biyoistatistik Kongresi, Antalya, Turkey, 26 - 29 October 2016
- XXXI. **Survival Analysis of ERCC1 Biomarker in Platinum-based Therapy for Non-Small Cell Lung Cancer (NSCLC)**
KURT B., ÜNSAL Ü.
18.Ulusal Biyoistatistik Kongresi ve 1. Uluslararası Biyoistatistik Kongresi, Antalya, Turkey, 26 - 29 October 2016
- XXXII. **Data Reduction for Medical Education Program Evaluation Questionnaire**
TURHAN K., KURT B., Yazağan A., TOPRAK U.
International Work-Conference on Bioinformatics and Biomedical Engineering, Granada, Spain, 15 - 17 April 2015, pp.48
- XXXIII. **Analysis of Inter-rater Reliability of the Mammography Assessment after Image Processing**
TURHAN K., KURT B., KUL S., Yazagan A.
3rd International Work-Conference on Bioinformatics and Biomedical Engineering (IWBBIO), Grenada, Spain, 15 - 17 April 2015, vol.9044, pp.77-84
- XXXIV. **A Novel Algorithm for Segmentation of Suspicious Microcalcification Regions on Mammograms**
KURT B., NABIYEV V., TURHAN K.
3rd International Work-Conference on Bioinformatics and Biomedical Engineering (IWBBIO), Grenada, Spain, 15 - 17 April 2015, vol.9043, pp.222-230
- XXXV. **Comparison of Enhancement Methods for Mammograms with Performance Measures**
KURT B., NABIYEV V., TURHAN K.
25th European Medical Informatics Conference (MIE), İstanbul, Turkey, 31 August - 03 September 2014, vol.205, pp.486-490
- XXXVI. **A model for analyzing the relation between potassium (K) and hemolysis index (HI) with clustering method**

- Engin Y. Z., TURHAN K., Kamburođlu S., ÖREM A., KURT B.
4th International Conference on Information Technology in Bio- and Medical Informatics, ITBAM 2013, Prague, Czech Republic, 28 August 2013, pp.106-107
- XXXVII. **Automatic microcalcification segmentation using rough entropy and fuzzy approach**
KURT B., NABIYEV V., TURHAN K.
4th International Conference on Information Technology in Bio- and Medical Informatics, ITBAM 2013, Prague, Czech Republic, 28 August 2013, vol.8060 LNCS, pp.103-105
- XXXVIII. **Potasyum(K) ve Hemoliz İndeksi (HI) Arasındaki İlişkinin Kümeleme Analizi Yöntemi ile İrdelenmesi**
ENGİN Y. Z., TURHAN K., S K., ÖREM A., KURT B.
Tıp Bilişimi Derneđi IX. Ulusal Tıp Bilişimi Kongresi, Antalya, Turkey, 15 - 17 November 2012
- XXXIX. **Mamografide Şüpheli Kitle Adayı Bölgelerin Belirlenmesi**
KURT B., NABIYEV V., TURHAN K.
Tıp Bilişimi Derneđi IX. Ulusal Tıp Bilişimi Kongresi, Antalya, Turkey, 15 - 17 November 2012
- XL. **Medical images enhancement by using anisotropic filter and CLAHE**
KURT B., NABIYEV V., TURHAN K.
International Symposium on INnovations in Intelligent SysTEms and Applications, INISTA 2012, Trabzon, Turkey, 2 - 04 July 2012
- XLI. **Contrast Enhancement and Breast Segmentation of Mammograms**
KURT B., NABIYEV V., TURHAN K.
2nd World Conference on Information Technology, Antalya, Turkey, 28 - 30 October 2011, pp.26-31
- XLII. **Dijital Mamografi Görüntülerinin Kontrast Sınırlı Adaptif Histogram Eşitleme ile İyileştirilmesi**
KURT B., NABIYEV V.
VII. Ulusal Tıp Bilişimi Kongresi, Gazimagusa, Turkey, 14 - 17 October 2010, pp.67-78
- XLIII. **Facial Expression Recognition**
NABIYEV V., KURT B.
2nd International Conference on Control and Optimization with Industrial Applications, Baku, Azerbaijan, 2 - 04 June 2008, pp.779-791
- XLIV. **Facial expression recognition using the combination of local binary patterns and neural networks**
NABIYEV V., KURT B.
The 2nd International Conference on Control and Optimization with Industrial Applications, 2 June - 04 February 2008
- XLV. **Yüz İfadelerinin Tanınması (Bilgisayarlı Psikolojik Durum Deđerlendirilmesi)**
KURT B., NABIYEV V. V., Bekirođlu Y.
12. Elektrik, Elektronik, Bilgisayar, Biyomedikal Mühendisliđi Kongresi, Eskişehir, Turkey, 14 - 18 November 2007
- XLVI. **Yüz İfadelerinin Tanınması**
KURT B., NABIYEV V., Bekirođlu Y.
12. Elektrik, Elektronik, Bilgisayar, Biyomedikal Mühendisliđi Kongresi, Eskişehir, Turkey, 14 - 18 November 2007, pp.1-5

Supported Projects

- Kurt B., Turhan K., TUBITAK Project, Kanserde İmmünoterapi Etkinliđini Artırmak İçin Makine Öğrenmesine Dayalı Gen Keşfi ve İlaç Yeniden Konumlandırma Platformunun Geliştirilmesi, 2020 - 2023
- KURT B., AYDIN KASAP Z., GÜNER A., ERCİN M. E., ÖZSAĞIR E., Project Supported by Higher Education Institutions, AUSFLUS ÖNEMİ BELİRSİZ ATİPİÖNEMİ BELİRSİZ FOLİKÜLER LEZYON TANISI ALAN TİROİD NODÜLLERİNİN MALİGNİTE ÖNGÖRÜSÜ İÇİN YAPISAL EŞİTLİK MODELİ İLE KARAR DESTEK SİSTEMİ, 2020 - 2022
- TURHAN K., ŞAHİN Y., Industrial Thesis Project, DICOM Uyumlu Meme Kanseri Karar Destek Sistemi, 2012 - 2014

Scientific Refereeing

COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING, Journal Indexed in SCI-E, March 2021

Project Supported by Higher Education Institutions, BAP MSc, Akdeniz University, Turkey, December 2020

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Turkey, October 2020

COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING, Journal Indexed in SCI-E, August 2020

Project Supported by Higher Education Institutions, BAP PhD, Akdeniz University, Turkey, June 2020

COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING, Journal Indexed in SCI-E, May 2020

HEALTH INFORMATICS JOURNAL, Journal Indexed in SCI-E, November 2019

SIGNAL IMAGE AND VIDEO PROCESSING, Journal Indexed in SCI-E, September 2019

HEALTH INFORMATICS JOURNAL, Journal Indexed in SCI-E, May 2019

Scientific Consultations

TÜBİTAK, Scientific Consultancy, Karadeniz Technical University, Tıp Fakültesi, Temel Tıp, Turkey, 2020 - 2021

TÜBİTAK, Scientific Consultancy, Karadeniz Technical University, Tıp Fakültesi, Temel Tıp, Turkey, 2020 - 2020

Metrics

Publication: 66

Citation (WoS): 136

Citation (Scopus): 186

H-Index (WoS): 4

H-Index (Scopus): 6

Non Academic Experience

Karadeniz Teknik Üniversitesi