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Personal Information

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International Researcher IDs

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Education Information

Doctorate, Anadolu University, Faculty Of Engineering, Department Of Computer Engineering, Turkey 2010 - 2014

Undergraduate, Istanbul Technical University, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, Turkey 1992 - 1997

Foreign Languages

English, C1 Advanced

Academic Titles / Tasks

Lecturer, Ankara University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2005 - 2015

Academic and Administrative Experience

Ankara University, 2015 - Continues

Courses

VERİ MADENCİLİĞİ, Undergraduate, 2013 - 2014

DATABAE MANAGEMENT SYSTEMS, Undergraduate, 2013 - 2014

BİLGİ GÜVENLİĞİ, Undergraduate, 2013 - 2014

VERİ TABANI YÖNETİMİ, Undergraduate, 2013 - 2014

DATA STRUCTURES, Undergraduate, 2013 - 2014

VERİ YAPILARI, Undergraduate, 2013 - 2014

Advising Theses

TUĞRUL B., Sentiment analysis with Turkish product review data, Postgraduate, B.POLAT(Student), 2021

TUĞRUL B., Açık kaynak istihbaratı: Twitter analizi, Postgraduate, S.ZEKİ(Student), 2020

TUĞRUL B., Nesne tabanlı metrikler kullanılarak yazılım projeleri maliyetlerinin tahmin edilmesi, Postgraduate, A.DİLBAZ(Student), 2020

TUĞRUL B., Nesne tabanlı metrikler kullanılarak yazılım projeleri maliyetlerinin tahmin edilmesi / Prediction of software

project costs using object-oriented metrics, Postgraduate, A.Dilbaz(Student), 2020
TUĞRUL B., Churn analysis in telecommunication sector, Postgraduate, M.SABRİ(Student), 2019
TUĞRUL B., A GIS solution to find optimal locations of ambulances in Ankara, Postgraduate, M.AMEEN(Student), 2019
TUĞRUL B., Design of geofence mechanism on real time tracking system with GPS+GSM+GPRS technology and reducing the error rate in GPS location data, Postgraduate, Z.ÖZDEMİR(Student), 2019
TUĞRUL B., Privacy – preserving k-NN spatial interpolation method, Postgraduate, M.RIFTHY(Student), 2018
TUĞRUL B., Hibrit resimleri kullanan omuz sörfüne karşı dirençli grafik tabanlı kimlik doğrulama, Postgraduate, B.BİLGİ(Student), 2018
TUĞRUL B., Veri iletişimde ağ dinleme saldırılarına karşı geliştirilmiş melez kriptosistem, Postgraduate, E.ERSAN(Student), 2017
TUĞRUL B., Bulanık mantık kullanarak katı atık depolama tesisi için en uygun konum belirleme, Postgraduate, B.ÖZDEMİR(Student), 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A new approach to Mergesort algorithm: Divide smart and conquer**
Emrah Amrahov S., AR Y., TUĞRUL B., Akay B. E., Kartli N.
Future Generation Computer Systems, vol.157, pp.330-343, 2024 (SCI-Expanded)
- II. **Analysis of Turkish cuisine flavors network**
Ozhan B., TUĞRUL B.
International Journal of Food Science and Technology, vol.59, no.2, pp.908-915, 2024 (SCI-Expanded)
- III. **A Review of Leaf Diseases Detection and Classification by Deep Learning**
Doutoum A. S., Tuğrul B.
IEEE ACCESS, vol.11, no.11, pp.119219-119230, 2023 (SCI-Expanded)
- IV. **Deep Learning-Based Classification of Image Data Sets Containing 111 Different Seeds**
Tuğrul B., Eryiğit R., Ar Y.
Advanced Theory and Simulations, vol.6, no.11, 2023 (SCI-Expanded)
- V. **Convolutional Neural Networks in Detection of Plant Leaf Diseases: A Review**
Tugrul B., Elfatimi E., Eryigit R.
AGRICULTURE-BASEL, vol.12, no.8, 2022 (SCI-Expanded)
- VI. **Privacy-preserving k-NN interpolation over two encrypted databases**
OSMANOĞLU M., DEMİR S., TUĞRUL B.
PEERJ COMPUTER SCIENCE, vol.8, 2022 (SCI-Expanded)
- VII. **Performance of Various Deep-Learning Networks in the Seed Classification Problem**
ERYİĞİT R., TUĞRUL B.
SYMMETRY-BASEL, vol.13, no.10, 2021 (SCI-Expanded)
- VIII. **An Effective Yield Estimation System Based on Blockchain Technology**
OSMANOĞLU M., TUĞRUL B., Dogantuna T., BOSTANCI G. E.
IEEE TRANSACTIONS ON ENGINEERING MANAGEMENT, vol.67, no.4, pp.1157-1168, 2020 (SCI-Expanded)
- IX. **Privacy-preserving trend surface analysis on partitioned data**
DEMİR S., TUĞRUL B.
KNOWLEDGE-BASED SYSTEMS, vol.144, pp.16-20, 2018 (SCI-Expanded)
- X. **Privacy-preserving kriging interpolation on partitioned data**
TUĞRUL B., POLAT H.
KNOWLEDGE-BASED SYSTEMS, vol.62, pp.38-46, 2014 (SCI-Expanded)
- XI. **Privacy-Preserving Inverse Distance Weighted Interpolation**
TUĞRUL B., POLAT H.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.39, no.4, pp.2773-2781, 2014 (SCI-Expanded)
- XII. **Estimating Kriging-based predictions with privacy**
TUĞRUL B., Polat H.

Articles Published in Other Journals

- I. **Classification of Guava Leaf Disease using Deep Learning**
DOUTOUM A. S., ERYİĞİT R., TUĞRUL B.
World Scientific and Engineering Academy and Society (WSEAS), vol.20, no.38, pp.356-363, 2023 (Peer-Reviewed Journal)
- II. **Classification of Trifolium Seeds by Computer Vision Methods**
Eryigit R., Ar Y., Tuğrul B.
WSEAS Transactions on Systems, vol.22, pp.313-320, 2023 (Scopus)
- III. **Network traffic analysis with machine learning methods**
Tugrul B., AHMED A. S. A.
Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.11, no.4, pp.862-870, 2022 (Peer-Reviewed Journal)
- IV. **Emotion Recognition System from Speech using Convolutional Neural Networks**
AYDIN M., TUĞRUL B., AR Y.
Journal of Computer Science, 2022 (Peer-Reviewed Journal)
- V. **Classification of five different rice seeds grown in Turkey with deep learning methods**
Tugrul B.
Communications Faculty of Sciences University of Ankara Series A2-A3: Physical Sciences and Engineering, vol.64, no.1, pp.40-50, 2022 (Peer-Reviewed Journal)
- VI. **PRIVACY-PRESERVING K-NEAREST NEIGHBOUR INTERPOLATIONMETHOD IN AN OUTSOURCED ENVIRONMENT**
Kalideen M. R., OSMANOĞLU M., TUĞRUL B.
Communications Faculty of Sciences University of Ankara Series A2-A3 Physical Sciences and Engineering, vol.61, no.1, pp.1-11, 2019 (Peer-Reviewed Journal)
- VII. **Outsourcing of Secure k-Nearest Neighbours Interpolation Method**
Kalideen M. R., TUĞRUL B.
INTERNATIONAL JOURNAL OF ADVANCED COMPUTER SCIENCE AND APPLICATIONS, vol.9, no.4, pp.319-323, 2018 (ESCI)
- VIII. **PRIVACY-PRESERVING TREND SURFACE ANALYSIS**
DEMİR S., TUĞRUL B.
International Journal of Research and Reviews in Applied Sciences, vol.32, no.2, pp.28-33, 2017 (Peer-Reviewed Journal)
- IX. **Secure Outsourcing of Trend Surface Analysis**
DEMİR S., TUĞRUL B.
International Journal of Research and Reviews in Applied Sciences, vol.32, no.1, pp.16-22, 2017 (Peer-Reviewed Journal)
- X. **A complete CAD model for type-I quantum cascade lasers with the use of artificial bee colony algorithm**
Yigit S., TUĞRUL B., Celebi F. V.
Journal of Artificial Intelligence, vol.5, no.2, pp.76-84, 2012 (Scopus)

Books & Book Chapters

- I. **Convolutional Neural Networks in Detection of Plant Leaf Diseases: A Review**
TUĞRUL B., Elfatimi E., ERYİĞİT R.

- in: Advances in Agricultural Engineering Technologies and Application, Sultan Muhammad, Shamshiri Redmond R., Ahamed Md Shamim, Farooq Muhammad, Editor, Academic Open Access Publishing, pp.245-265, 2023
- II. **Simetrik Şifreleme ve Mesaj Gizliliği**
TUĞRUL B.
in: AĞ YÖNETİMİ VE BİLGİ GÜVENLİĞİ, Alper Bilge, Editor, ANADOLU ÜNİVERSİTESİ, pp.40-59, 2016
- III. **Anahtar Dağıtımı ve Kullanıcı Kimlik Doğrulama**
TUĞRUL B.
in: AĞ YÖNETİMİ VE BİLGİ GÜVENLİĞİ, Alper Bilge, Editor, ANADOLU ÜNİVERSİTESİ, pp.80-97, 2016
- IV. **İletim Katmanı ve Kablosuz Ağ Güvenliği**
TUĞRUL B.
in: AĞ YÖNETİMİ VE BİLGİ GÜVENLİĞİ, Alper Bilge, Editor, ANADOLU ÜNİVERSİTESİ, pp.98-117, 2016
- V. **Açık Anahtar Şifreleme ve Mesaj Doğrulama**
TUĞRUL B.
in: AĞ YÖNETİMİ VE BİLGİ GÜVENLİĞİ, Alper Bilge, Editor, ANADOLU ÜNİVERSİTESİ, pp.60-79, 2016
- VI. **HESAP TABLOSU**
SEVİNDİK M., BAĞCI E., NUMANOĞLU M., KARATAŞ E., TUĞRUL B., DEMİR S.
in: TEMEL BİLGİSAYAR EĞİTİMİ, , Editor, Bıçaklar Kitabevi, Ankara, pp.216-295, 2006

Refereed Congress / Symposium Publications in Proceedings

- I. **Design of a Blockchain-Based Organ Donation and Transplantation Management Framework**
Osmanoğlu M., Karakuş M., Tuğrul B., Demir S.
9th International Congress on Information and Communication Technology (ICICT 2024), London, England, 19 - 22 February 2024, pp.155-164
- II. **A Comparative Study on Two Apple Leaves Datasets Captured Under Diverse Conditions**
Doutoum A. S., ERYİĞİT R., TUĞRUL B.
9th International Congress on Information and Communication Technology, ICICT 2024, London, England, 19 - 22 February 2024, vol.1002 LNNS, pp.237-247
- III. **Analysing Eastern Anatolian Region Food Recipes with Graph Database**
Akpınar S. I., Sepetci Y. E., TUĞRUL B.
8th International Scientific Conference "Telecommunications, Informatics, Energy and Management", Bandırma, Turkey, 1 - 03 December 2023, pp.352-359
- IV. **Comparative Analysis of Differential Privacy over Multiple Data Sets**
Oztas R. C., TUĞRUL B.
8th International Scientific Conference "Telecommunications, Informatics, Energy and Management", Bandırma, Turkey, 01 December 2023
- V. **An Analysis of Antalya's Wind Energy Potential Utilizing Machine Learning Algorithms**
DEMİR SOY G., OZSOY N., AYTAR D. B., KAYA B. B., TUĞRUL B.
7th International Artificial Intelligence and Data Processing Symposium, Malatya, Turkey, 07 September 2023, pp.1-10
- VI. **Gayrimenkulde Büyük Veri: Tapu ve Kadastro Bilgi Sistemi Örneği**
SUNGUROĞLU E., TUĞRUL B., TANRIVERMİŞ Y.
III. Uluslararası Gayrimenkul Geliştirme ve Yönetimi Konferansı, Turkey, 01 February 2023
- VII. **Türkiye Eğitim Verisinin OECD Ülkeleri ile Karşılaştırılması**
AYDIN İ., TUĞRUL B.
6th International Symposium on Innovative Approaches in Smart Technologies, Ankara, Turkey, 08 December 2022
- VIII. **Otomotiv Trendleri Veri Seti Görselleştirme Çalışması**
Girgin İ., ERYİĞİT R., TUĞRUL B.
6th International Symposium on Innovative Approaches in Smart Technologies, Ankara, Turkey, 08 December

2022

- IX. Interactive Machine Learning for Wheat Head Counting**
TUĞRUL B., ERYİĞİT R.
International Conference on Design, Research and Development 2021, Konya, Turkey, 15 December 2021
- X. Breast Cancer Prediction Using Different Classification Algorithms with Various Feature Selection Strategies**
TUĞRUL B., Sabha M.
5th International Conference on Informatics and Computational Sciences (ICICoS), Semarang, Indonesia, 24 November 2021
- XI. Automobile Price Prediction in Turkey Marketplace with Linear Regression**
Satioglu M. C., AR Y., TUĞRUL B.
International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Bolu, Turkey, 21 October 2021
- XII. Comparison of VGG and MobileNet Models for Grass Seed Dataset**
ERYİĞİT R., TUĞRUL B.
5th International Conference on Informatics and Computational Sciences (ICICoS), Aachen, Germany, 24 - 25 October 2021
- XIII. Geofencing on the Real-Time GPS Tracking System and Improving GPS Accuracy with Moving Average, Kalman Filter and Logistic Regression Analysis**
ÖZDEMİR Z., TUĞRUL B.
3rd International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2019, Ankara, Turkey, 11 - 13 October 2019
- XIV. Designing Yield Estimation Mechanism Using Blockchain Technology**
Doğantuna T., Ceran A. A., Tuğrul B., Demir S., Osmanoğlu M., Bostancı G. E.
3. International Conference on Theoretical and Applied Computer Science and Engineering, Ankara, Turkey, 23 - 24 November 2018, pp.82-85
- XV. A Community Detection Algorithm on Graph Data**
EMRAH Ş., TUĞRUL B.
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018
- XVI. A Shoulder-Surfing Resistant Graphical Authentication Method**
Bilgi B., TUĞRUL B.
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018
- XVII. Bulanık Mantık Kullanılarak Sincan Bölgesi için En Uygun Katı Atık Depolama Sahası Konumunun Belirlenmesi**
Özdemir B., TUĞRUL B.
International Advanced Researches and Engineering Congress, Osmaniye, Turkey, 16 - 18 November 2017, pp.1278-1284
- XVIII. An analysis of imperative programming languages from data and function abstraction perspective**
GÜNDÜÇ S., ERYİĞİT R., TUĞRUL B.
International Conference on theoretical and applied Computer Science and Engineering, Ankara, Turkey, 10 - 12 November 2017
- XIX. An Analysis of imperative programming languages from data and function abstraction perspective**
GÜNDÜÇ S., TUĞRUL B., ERYİĞİT R.
International conference on theoretical and applied computer science, 10 - 11 November 2017
- XX. Robustness of Complex Networks**
DEMİR S., TUĞRUL B.
ICADET International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017, pp.850-856
- XXI. Privacy-Preserving Kriging Interpolation on Distributed Data**

TUĞRUL B., POLAT H.

14th International Conference on Computational Science and Its Applications (ICCSA), Guimaraes, Portugal, 30
June - 03 July 2014, vol.8584, pp.695-708

Metrics

Publication: 49

Citation (WoS): 69

Citation (Scopus): 185

H-Index (WoS): 5

H-Index (Scopus): 7