

Prof. ALPER ODABAŞ

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, Matematik Ve Bilgisayar Bilimleri Bölümü, Turkey
2004 - 2009

Postgraduate, Dumlupınar Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 2002 - 2004

Undergraduate, Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 1998 - 2002

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, GAP (GROUP, ALGORITHM AND PROGRAMMING) İLE CEBİRLER ÜZERİNDE ÇAPRAZLANMIŞ MODÜLLER,
Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, Matematik Ve Bilgisayar Bilimleri Bölümü, 2009

Postgraduate, GAP (GROUP, ALGORITHM AND PROGRAMMING) İLE CEBİR VE SAYILAR TEORİSİ, Dumlupınar
Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2004

Research Areas

Computer Sciences, Artificial Intelligence, Computer Learning and Pattern Recognition, Mathematics, Computer Science,
Group Theory and Generalizations, Classification Theory and Homological Algebra

Academic Titles / Tasks

Professor, Eskisehir Osmangazi University, Fen Fakültesi, Matematik-Bilgisayar Bölümü, 2022 - Continues

Associate Professor, Eskisehir Osmangazi University, Fen Fakültesi, Matematik-Bilgisayar Bölümü, 2017 - 2022

Assistant Professor, Eskisehir Osmangazi University, Fen Fakültesi, Matematik-Bilgisayar Bölümü, 2009 - 2017

Research Assistant, Eskisehir Osmangazi University, Fen Fakültesi, Matematik-Bilgisayar Bölümü, 2005 - 2009

Research Assistant, Dumlupınar Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2002 - 2005

Academic and Administrative Experience

Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, Matematik Ve Bilgisayar Bilimleri Bölümü, 2012 - Continues
Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, Matematik Ve Bilgisayar Bilimleri Bölümü, 2009 - Continues
Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, Matematik Ve Bilgisayar Bilimleri Bölümü, 2009 - 2010

Advising Theses

ODABAŞ A., Julia ve Derin Öğrenme Teknikleri Kullanılarak İçme suyu Arıtma Tesisleri için Yapay Zeka Uygulaması,, Doctorate, G.KAPLAN(Student), 2019

ODABAŞ A., MAKİNE ÖĞRENMESİ TEKNİKLERİ İLE SAĞLIK DAVRANIŞLARINA DAYALI DİYABETİN TAHMİN EDİLMESİ,, Postgraduate, H.FADHL(Student), 2019

ODABAŞ A., Braided Çaprazlanmış Modüllerin Sınıflandırılması, Postgraduate, M.MÜCAHİD(Student), 2019

ODABAŞ A., Asosyatif olmayan cebirlerin sınıflandırılması, Doctorate, E.SOYLU(Student), 2019

ODABAŞ A., Yapay zeka teknigiyle işitme engelliler için uzaktan iletişim sistemi, Doctorate, Ö.ÇELİK(Student), 2019

ODABAŞ A., Nesnelerin interneti ile akıllı sera uygulaması, Postgraduate, K.ÇAĞLAR(Student), 2018

ODABAŞ A., Matlab ile görüntü işleme ve kenar belirlemede yeni filtreleme yöntemi, Postgraduate, G.KAPLAN(Student), 2017

ODABAŞ A., Haskell ile kategori teori, Postgraduate, E.SOYLU(Student), 2013

ODABAŞ A., Lie cebirleri üzerinde öncaprazlanmış modüller, Doctorate, A.FARUK(Student), 2013

ODABAŞ A., Grup cebirlerde hesaplamlar, Postgraduate, M.ÜNLÜ(Student), 2010

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Optical properties of Nb₂O₅ doped ZnO nanocomposite thin film deposited by thermionic vacuum arc**
PAT S., ÇELİK Ö., ODABAŞ A., KORKMAZ Ş.
Optik, vol.258, 2022 (SCI-Expanded)
- II. **Commutativity degree of crossed modules**
ARVASİ Z., Çağlayan E. I., ODABAŞ A.
Turkish Journal of Mathematics, vol.46, no.1, pp.242-256, 2022 (SCI-Expanded)
- III. **A U-Net Approach to Apical Lesion Segmentation on Panoramic Radiographs**
Bayrakdar İ. Ş., Orhan K., Çelik Ö., Bilgir E., Sağlam H., Kaplan F. A., Görür S. A., Odabaş A., Aslan A. F., Różyło-Kalinowska I.
BIOMED RESEARCH INTERNATIONAL, vol.2022, 2022 (SCI-Expanded)
- IV. **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., Aydin 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)
- V. **An artificial intelligence proposal to automatic teeth detection and numbering in dental bite-wing radiographs**
Yasa Y., Celik Ö., BAYRAKDAR İ. Ş., PEKİNCİ A., ORHAN K., Akarsu S., Atasoy S., BİLGİR E., ODABAŞ A., ASLAN A. F.
ACTA ODONTOLOGICA SCANDINAVICA, vol.79, no.4, pp.275-281, 2021 (SCI-Expanded)
- VI. **Detection of Lung Cancer on Computed Tomography Using Artificial Intelligence Applications Developed by Deep Learning Methods and the Contribution of Deep Learning to the Classification of Lung Carcinoma**
Aydın N., Çelik Ö., Aslan A. F., Odabaş A., Dündar E., Şahin M. C.
CURRENT MEDICAL IMAGING, vol.17, no.9, pp.1137-1141, 2021 (SCI-Expanded)
- VII. **AN ALGORITHM FOR COMPUTING ISOCLINISM FAMILIES OF GROUPS**
ODABAŞ A.
COMPTES RENDUS DE L'ACADEMIE BULGARE DES SCIENCES, vol.73, no.1, pp.3-12, 2020 (SCI-Expanded)

- VIII. **Higher dimensional algebras as ideal maps**
 Odabaş A., Ulualan E.
 HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.49, no.6, pp.1865-1884, 2020 (SCI-Expanded)
- IX. **On groups with action on itself**
 Uslu E. O., ASLAN A. F., ODABAŞ A.
 GEORGIAN MATHEMATICAL JOURNAL, vol.26, no.3, pp.459-470, 2019 (SCI-Expanded)
- X. **Relationships between category theory and functional programming with an application**
 ODABAŞ A., SOYLU YILMAZ E.
 TURKISH JOURNAL OF MATHEMATICS, vol.43, no.3, pp.1566-1577, 2019 (SCI-Expanded)
- XI. **Braided regular crossed modules bifibered over regular groupoids**
 ODABAŞ A., ULUALAN E.
 TURKISH JOURNAL OF MATHEMATICS, vol.41, no.6, pp.1385-1403, 2017 (SCI-Expanded)
- XII. **Computing 2-dimensional algebras: Crossed modules and Cat1-algebras**
 Arvası Z., Odabas A.
 Journal of Algebra and its Applications, vol.15, no.10, 2016 (SCI-Expanded)
- XIII. **On Free Quadratic Modules of Commutative Algebras**
 ODABAŞ A., ULUALAN E.
 BULLETIN OF THE MALAYSIAN MATHEMATICAL SCIENCES SOCIETY, vol.39, no.3, pp.1059-1074, 2016 (SCI-Expanded)
- XIV. **Isoclinism of crossed modules**
 Odabas A., Uslu E. O., Ilgaz E.
 JOURNAL OF SYMBOLIC COMPUTATION, vol.74, pp.408-424, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **Financial Performance of BİST-Cement Companies Analysis by TOPSIS and ELECTRE Methods**
 BOZDOĞAN T., Odabas A., Çetin Ö. O.
 Dumlupınar Üniversitesi Sosyal Bilimler Dergisi, no.78, pp.491-510, 2023 (Peer-Reviewed Journal)
- II. **Analysis of Financial Performances of Banks by ELECTRE and TOPSIS Methods in the Covid-19 Pandemic**
 Kaplan G., Odabas A., BOZDOĞAN T.
 Alanya Akademik Bakış, vol.7, no.2, pp.865-892, 2023 (Peer-Reviewed Journal)
- III. **Segmentation of acute pulmonary embolism in computed tomography pulmonary angiography using the deep learning method** Derin öğrenme yöntemiyle akut pulmoner embolinin bilgisayarlı tomografik pulmoner anjiografide 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)
- IV. **Machine Learning Model to Diagnose Diabetes Type 2 Based on Health Behavior**
 ALSHARI H., ODABAŞ A.
 GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.35, no.3, pp.834-852, 2022 (ESCI)
- V. **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 Diş Hekimliği Bilimleri Dergisi, vol.28, 2022 (Peer-Reviewed Journal)
- VI. **Segmentation of orbital and periorbital lesions detected in orbital magnetic resonance imaging by deep learning method**
 AYDIN N., SAYLISOY S., Celik O., ASLAN A. F., ODABAŞ A.
 Polish Journal of Radiology, vol.87, no.1, 2022 (ESCI)
- VII. **Analysis of Financial Performance of Foreign Banks Having Branches in Turkey by TOPSIS and ELECTRE Methods**

- Bozdoğan T., Odabaş A., Shegiwal A. H.
Alanya Academic Review Journal, vol.5, no.2, pp.1049-1067, 2021 (Peer-Reviewed Journal)
- VIII. **Comparison of Gradient Boosting Decision Tree Algorithms for CPU Performance**
Odabaş A., Alsharī H., Saleh A. Y.
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.37, no.1, pp.157-168, 2021 (Peer-Reviewed Journal)
- IX. **Success of artificial intelligence system in determining alveolar bone loss from dental panoramic radiography images**
KURT BAYRAKDAR S., ÇELİK Ö., BAYRAKDAR İ. Ş., ORHAN K., BİLGİR E., ODABAŞ A., ASLAN A. F.
Cumhuriyet Dental Journal, vol.23, no.4, pp.318-324, 2020 (Peer-Reviewed Journal)
- X. **Sign2Text: Konvolüsyonel Sinir Ağları Kullanarak Türk İşaret Dili Tanıma**
ÇELİK Ö., ODABAŞ A.
Avrupa Bilim ve Teknoloji Dergisi, no.19, pp.923-934, 2020 (Peer-Reviewed Journal)
- XI. **Analysis of Financial Performances of Hospital Services Subsector By ELECTRE Method**
BOZDOĞAN C., ODABAŞ A.
New Challenges in Accounting and Finance (NCAF), vol.2020, no.3, pp.29-39, 2020 (Peer-Reviewed Journal)
- XII. **KATILIM BANKALARININ FİNANSAL PERFORMANSLARININ ELECTRE YÖNTEMİYLE ANALİZİ**
ODABAŞ A., BOZDOĞAN T.
Muhasebe ve Finansman Dergisi, no.88, pp.199-224, 2020 (Peer-Reviewed Journal)
- XIII. **Computing High Dimensional Algebras with GAP, I**
ARVASI Z., ODABAŞ A.
Tathapi, vol.19, no.55, pp.428-432, 2020 (Peer-Reviewed Journal)
- XIV. **Computing High Dimensional Algebras with GAP, II**
ARVASI Z., ODABAŞ A.
Tathapi, vol.19, no.55, pp.443-447, 2020 (Peer-Reviewed Journal)
- XV. **Derin öğrenme yöntemi ile panoramik radyografiden dış eksikliklerinin tespiti: Bir yapay zekâ pilot çalışması**
Çelik Ö., Odabaş A., Bayrakdar İ. Ş., Bilgir E., Akkoca Kaplan F.
Selcuk Dental Journal, vol.6, no.4, pp.168-172, 2019 (Conference Book)
- XVI. **Classification of Finite Simplicial Algebras**
ODABAŞ A.
ANADOLU UNIVERSITY JOURNAL OF SCIENCE AND TECHNOLOGY A - Applied Sciences and Engineering, vol.18, no.1, pp.22, 2017 (Peer-Reviewed Journal)
- XVII. **Isoclinic Lie Crossed Modules**
ILGAZ ÇAĞLAYAN E., ODABAŞ A., USLU E. Ö.
arXiv, pp.1-14, 2016 (Non Peer-Reviewed Journal)
- XVIII. **Analyzing Group Theoretical Properties of Groups with Order 24 by GAP**
ASLAN A. F., ODABAŞ A.
EUROPEAN JOURNAL OF PURE AND APPLIED MATHEMATICS, vol.8, no.3, pp.375-388, 2015 (ESCI)
- XIX. **s Weakly Regularity of Group Algebras with GAP**
Odabaş A.
INTERNATIONAL MATHEMATICAL FORUM, vol.4, no.47, pp.2317-2325, 2009 (Peer-Reviewed Journal)
- XX. **Peiffer Pairings in The Moore Complex of a Pro C Simplicial Group**
ODABAŞ A.
INTERNATIONAL MATHEMATICAL FORUM, vol.4, no.20, pp.977-982, 2009 (Peer-Reviewed Journal)
- XXI. **From Pro C Simplicial Groups to Pro C Crossed Complexes**
ODABAŞ A.
INTERNATIONAL JOURNAL OF ALGEBRA, vol.3, no.18, pp.881-888, 2009 (Peer-Reviewed Journal)
- XXII. **Some Remarks on Simplicial Commutative Algebras**
ODABAŞ A.
ALGEBRAS, GROUPS, AND GEOMETRIES, vol.26, no.2, pp.133-141, 2009 (Peer-Reviewed Journal)
- XXIII. **36 Dereceden Grupların Cat1-Gruplarının GAP Kullanılarak Sıralanması**

ALP M., ODABAŞ A.

DPU FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, no.4, pp.163-174, 2003 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. ELECTRE ve TOPSIS Yöntemleriyle BİST-Bilişim Sektöründeki İşletmelerin Finansal Performanslarının Analizi
ODABAŞ A., BOZDOĞAN T., YILMAZ A.
5. International EMI Kongre, 29 - 30 June 2020
- II. The Detection Of Tooth Deficiency On Panoramic Radiography Using Deep Learning Technique: An Artificial Intelligence Pilot Study
ÇELİK Ö., ODABAŞ A., BAYRAKDAR İ. Ş., BİLGİR E., AKKOCA KAPLAN F.
3. Uluslararası Oral Diagnoz ve Maksillofasiyal Radyoloji Kongresi, Antalya, Turkey, 25 - 28 April 2019
- III. 2-ALGEBRAS WITH GAP, I : CROSSED MODULES AND CAT-1 ALGEBRAS
ARVASİ Z., ODABAŞ A.
INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE AND TECHNOLOGY, ROPAR, India, 16 - 18 March 2018
- IV. 2-ALGEBRAS WITH GAP, II : IMPLEMENTATIONS
ARVASİ Z., ODABAŞ A.
INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE AND TECHNOLOGY, ROPAR, India, 16 - 18 March 2018
- V. A NEW EDGE DETECTION FILTER METHOD FOR NARROW DYNAMIC RANGE IMAGES
KAPLAN G., ODABAŞ A.
INTERNATIONAL SYMPOSIUM ON MULTIDISCIPLINARY STUDIES AND INNOVATIVE TECHNOLOGIES, Tokat, Turkey, 2 - 04 November 2017
- VI. IMAGE PROCESSING APPLICATION ON PSYCHOLOGY
KAPLAN G., ODABAŞ A.
8TH WORLD CONFERENCE ON PSYCHOLOGY, COUNSELING AND GUIDANCE, 28 - 30 April 2017
- VII. HASKELL IMPLEMENTATION OF A SMALL CATEGORY
SOYLU E., ODABAŞ A.
THE INTERNATIONAL CONFERENCE ON SCIENCE, ECOLOGY AND TECHNOLOGY I, VIYANA, Austria, 25 - 28 August 2015
- VIII. The package XModAlg
ARVASİ Z., ODABAŞ A.
International Conference on Applied Analysis and Mathematical Modeling, 8 - 12 June 2015
- IX. CLASSIFICATION OF GROUPS UP TO ISOCLINISM WITH GAP
ARVASİ Z., ODABAŞ A.
INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELLING, İstanbul, Turkey, 8 - 12 June 2015

Supported Projects

- Kaplan G., Odabaş A., Project Supported by Higher Education Institutions, Julia ile İçme Suyu Arıtma Tesisleri için Yapay Zeka Uygulaması, 2021 - 2023
- Bayrakdar İ. Ş., Orhan K., Bilgir E., Çelik Ö., Odabaş A., Aslan A. F., Bayrak Ş., Project Supported by Higher Education Institutions, Evaluation of 2D and 3D dental radiographs with Artificial Intelligence, 2020 - 2023
- ODABAŞ A., TOKER M. M., Project Supported by Higher Education Institutions, Braided Çaprazlanmış Modüllerin Sınıflandırılması, 2020 - 2021
- ARVASİ Z., ODABAŞ A., Project Supported by Higher Education Institutions, 3-Boyutlu Grupların Sınıflandırılması, 2017 - 2021
- ODABAŞ A., ODABAŞ A., Project Supported by Higher Education Institutions, GRUP İLE ETKİLER ÜZERİNDE

Metrics

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