EMEL ÜNVER DEMİR

ASST. PROF.

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International Researcher IDs
ScholarID: ul-Icz4AAAAJ
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Publons / Web Of Science ResearcherID: MFZ-8255-2025
ScopusID: 57188561691
Yoksis Researcher ID: 189657

Education

Doctorate 2007 - 2014	Ege University, Fen Bilimleri Enstitüsü, Matematik, Turkey
Postgraduate 2002 - 2005	Manisa Celal Bayar University, FEN BİLİMLERİ ENSTİTÜSÜ, Matematik, Turkey
Undergraduate 1998 - 2002	Manisa Celal Bayar University, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, MATEMATİK, Turkey

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Steenrod algebra structure of digital images, Ege University, Fen Bilimleri Enstitüsü, Matematik, 2014
Postgraduate, Homotopy theory for truncated weak equivalences of simplicial algebras, Manisa Celal Bayar University, FEN BİLİMLERİ ENSTİTÜSÜ, Matematik, 2005

Academic Positions

Assistant Professor 2022 - Present	Manisa Celal Bayar University, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, MATEMATİK
Research Assistant 2014 - 2022	Manisa Celal Bayar University, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, MATEMATİK

Research Assistant 2007 - 2014	Ege University

Research Assistant 2003 - 2007	Manisa Celal Bayar University, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, MATEMATİK

Funded Projects

1. GÜROĞLU A. T., KAYA O., BALKI OKULLU P., KAHRAMAN T., ÜNVER DEMİR E., ÖZKAN K., Project Supported by Higher Education Institutions, BAP Other, 9. Halka, Modül ve Cebir Çalıştayı, 2023 - 2024

Articles

1. **Homological Properties and Digital Relative Homology Groups of MA-Spaces**
   Ünver Demir E.
   SYMMETRY, vol.17, no.6, pp.1-13, 2025 (SCI-Expanded, Scopus)
2. **Singular homology algorithm for MA-spaces**
   ÜNVER DEMİR E.
   Thermal Science, vol.23, 2019 (SCI-Expanded, Scopus)
3. **An algorithm for computing digital cohomology groups**
   Demir E., Karaca I.
   Applied Mathematics and Information Sciences, vol.10, no.3, pp.1007-1015, 2016 (Scopus)
4. **Some Properties of Steenrod Squares on Digital Images**
   Ünver Demir E.
   Mathematical Sciences Letters, vol.5, no.2, pp.107-120, 2016 (Peer-Reviewed Journal)
5. **Simplicial homology groups of certain digital surfaces**
   ÜNVER DEMİR E., Karaca İ.
   Hacettepe Journal of Mathematics and Statistics, vol.44, no.5, pp.1011-1022, 2015 (SCI-Expanded, Scopus, TRDizin)
6. **Cw tabanları ile verilen serbest simplişıl grupların kullanımıyla ikinci mertebeden simplişıl örtüler**
   Ünver E.
   SAKARYA UNIVERSITY JOURNAL OF SCIENCE, vol.11, no.1, pp.27-36, 2009 (Peer-Reviewed Journal)
7. **Simplicial Galois Theory Of A Free Simplicial Groups With Given Cw-Bases**
   Ünver E.
   Beykent University Journal of Science and Technology, vol.2, no.2, pp.166-176, 2008 (Peer-Reviewed Journal)
8. **A SURVEY ON SUBCROSSED MODULES OF GROUPS II**
   Ünver Demir E.
   Journal of Institute of Mathematics and Computer Sciences, vol.19, no.2, pp.119-126, 2006 (Peer-Reviewed Journal)
9. **A SURVEY ON SUBCROSSED MODULES OF GROUPS I**
   Ünver Demir E.
   Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.1, no.1, pp.53-59, 2005 (Peer-Reviewed Journal)

Papers Presented at Peer-Reviewed Scientific Conferences

1. **A work on relative homology groups of simple closed MA-spaces**
   Ünver Demir E.
   International Congress on Fundamental and Applied Sciences, İstanbul, Turkey, 28 - 30 June 2022, pp.168,

(Summary Text)

2. **A work on homology groups of simple closed H-curves**
   Ünver Demir E.
   16th International Geometry Conference, Manisa, Turkey, 4 - 07 July 2018, pp.316, (Summary Text)
3. **On homology groups of simple closed MA-curves**
   Ünver Demir E.
   International Conference on Applied Analysis and Mathematical Modelling, İstanbul, Turkey, 3 - 07 July 2017, pp.305, (Summary Text)
4. **On homology groups of 2D-digital MA-spaces**
   Ünver Demir E.
   International Conference on Mathematics and Engineering, İstanbul, Turkey, 10 - 12 May 2017, pp.213, (Summary Text)
5. **Adem relations for Steenrod squares on digital images**
   Ünver Demir E.
   International Conference on Advances in Applied Mathematics and Mathematical Physics, İstanbul, Turkey, 19 - 21 August 2014, (Unpublished)
6. **Some results on cohomology groups of digital images**
   Ünver Demir E.
   International Conference on Advances in Applied Mathematics and Mathematical Physics, İstanbul, Turkey, 19 - 21 August 2014, (Unpublished)

Courses

Postgraduate

Digital Topoloji I, Postgraduate, 2025 - 2026, 2023 - 2024
Digital Topoloji II, Postgraduate, 2025 - 2026, 2023 - 2024
Cebirsel Topoloji I, Postgraduate, 2025 - 2026
Cebirsel Topoloji II, Postgraduate, 2025 - 2026

Undergraduate

Differential Equations, Undergraduate, 2022 - 2023
Differential Equations, Undergraduate, 2022 - 2023
Diferansiyel Denklemler, Undergraduate, 2022 - 2023
Diferansiyel Denklemler, Undergraduate, 2022 - 2023
Mathematics I, Undergraduate, 2023 - 2024
Mathematics I, Undergraduate, 2023 - 2024
Mathematics II, Undergraduate, 2023 - 2024
Mathematics II, Undergraduate, 2023 - 2024
Mathematics I, Undergraduate, 2025 - 2026
Mathematics II, Undergraduate, 2025 - 2026
Mathematics I, Undergraduate, 2026 - 2027, 2025 - 2026, 2024 - 2025, 2022 - 2023
Mathematics II, Undergraduate, 2025 - 2026, 2024 - 2025, 2023 - 2024
Mathematics I, Undergraduate, 2026 - 2027, 2024 - 2025, 2023 - 2024, 2022 - 2023
Mathematics II, Undergraduate, 2024 - 2025, 2022 - 2023
Cebire Giriş II, Undergraduate, 2022 - 2023
Topoloji I, Undergraduate, 2023 - 2024
Topoloji II, Undergraduate, 2023 - 2024
Cebirsel Topolojiye Giriş I , Undergraduate, 2024 - 2025
Cebirsel Topolojiye Giriş II, Undergraduate, 2024 - 2025
Lineer Cebir I, Undergraduate, 2025 - 2026
Lineer Cebir II, Undergraduate, 2025 - 2026

Genel Topolojiye Giriş I, Undergraduate, 2026 - 2027
Bitirme Projesi I, Undergraduate, 2022 - 2023
Bitirme Projesi II, Undergraduate, 2023 - 2024, 2022 - 2023
Bitirme Projesi I, Undergraduate, 2026 - 2027, 2025 - 2026, 2024 - 2025
Bitirme Projesi II, Undergraduate, 2025 - 2026, 2024 - 2025
Sosyal Sorumluluk Projesi , Undergraduate, 2022 - 2023
Sosyal Sorumluluk Projesi, Undergraduate, 2025 - 2026, 2024 - 2025, 2023 - 2024, 2022 - 2023

Metrics

Publication: 15
Citation (Scopus): 4
H-Index (Scopus): 1

Research Areas

Avesis Research Areas: Natural Sciences, Mathematics, Algebraic Topology
WoS Research Areas: Natural Sciences (Sci)