DERYA DOĞAN
ASSOC. PROF.

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International Researcher IDs
ScholarID: Og1-jIIAAAAJ
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Publons / Web Of Science ResearcherID: ABU-6547-2022
ScopusID: 57202030976
Yoksis Researcher ID: 106514

Education

Doctorate 2007 - 2012	Ege University, Turkey
Postgraduate 2001 - 2004	Manisa Celal Bayar University, Fen Bilimleri Enstitüsü, Turkey
Undergraduate 1997 - 2001	Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, Matematik, Turkey

Foreign Languages

English

Dissertations

Doctorate, Graflarda Ortalama Örtü Sayısı, Ege University, 2012
Postgraduate, Sonlu gruplar ve yüzeylere etkileri, 2004

Academic Positions

Associate Professor 2020 - Present	Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, Matematik
Student 2019 - Present	Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, Matematik
Assistant Professor 2013 - 2020	Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, Matematik

Research Assistant PhD 2012 - 2013	Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, Matematik
Research Assistant 2007 - 2012	Ege University
Research Assistant 2001 - 2007	Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, Matematik

Funded Projects

1. DOĞAN D., Project Supported by Higher Education Institutions, BAP Research Project, Ortalama Örtü Sayısına Algoritmik Yaklaşım, 2017 - 2018

Jury Memberships

Post Graduate, Post Graduate, Ege Üniversitesi, June, 2026
Post Graduate, Post Graduate, Ege Üniversitesi, June, 2026
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ege Üniversitesi, June, 2026
Doctoral Examination, Doctoral Examination, Ege Üniversitesi, December, 2025
Post Graduate, Post Graduate, Ege Üniversitesi, December, 2025
Post Graduate, Post Graduate, Ege Üniversitesi, June, 2025
Post Graduate, Post Graduate, Ege Üniversitesi, June, 2025
Post Graduate, Post Graduate, Ege Üniversitesi, June, 2025
Assistant Professorship Appointment Committee, Assistant Professorship Appointment Committee, Dokuz Eylül Üniversitesi, January, 2023

Articles

1. **Roman Domination in Mycielski Graphs: A Study of Some Graphs and a Heuristic Algorithm**
   DOĞAN DURGUN D., TOPRAKKAYA E. N.
   Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.29, no.2, pp.494-502, 2024 (TRDizin)
2. **ROMAN DOMINATION ON SOME GRAPHS**
   DOĞAN DURGUN D., TOPRAKKAYA E. N.
   Journal of Modern Technology and Engineering, vol.2, no.8, pp.96-104, 2023 (Peer-Reviewed Journal)
3. **Weak and strong domination in thorn graphs**
   DURGUN D., LÖKÇÜ B.
   ASIAN-EUROPEAN JOURNAL OF MATHEMATICS, vol.13, no.04, pp.2050071, 2020 (ESCI, Scopus)
4. **PACKING CHROMATIC NUMBER OF TRANSFORMATION GRAPHS**
   Durgun D., Ozen Dortok H. B.
   THERMAL SCIENCE, vol.23, 2019 (SCI-Expanded, Scopus)
5. **ON THE AVERAGE COVERING NUMBER OF PYRAMID AND CIRCULAR LADDER GRAPHS**
   DURGUN D., BAGATARHAN A.
   Advanced Mathematical Models and Applications, vol.3, no.3, pp.206-210, 2018 (Peer-Reviewed Journal)
6. **LIAR'S DOMINATION IN GRAPHS**

DURGUN D., ALTUNDAĞ F. N.
BULLETIN OF THE INTERNATIONAL MATHEMATICAL VIRTUAL INSTITUTE, vol.7, no.2017, pp.407-415, 2017 (Peer-Reviewed Journal)

7. **2 Rainbow Domination Number of Some Graphs**
DURGUN D., ALTUNDAĞ F. N.
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.12, no.3, pp.363-366, 2016 (Scopus, TRDizin)
8. **The Average Covering Number on Graph Operations**
DURGUN D., DÜNDAR P.
Journal of Logic, Mathematics and Lingusitics in Applied Sciences, vol.1, no.1, 2016 (Peer-Reviewed Journal)
9. **Strong Domination Number of Some Graphs**
DURGUN D., LÖKÇÜ B.
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.11, pp.89-91, 2015 (TRDizin)
10. **On Properly Colored Hamiltonian Cycles in Cubes of Distance Colored Grids**
DURGUN D., KOLASINSKI K., ZHANG P.
AKCE INTERNATIONAL JOURNAL OF GRAPHS AND COMBINATORICS, vol.10, no.1, pp.57-67, 2013 (Scopus)
11. **The Average Covering Number of a Graph**
Dogan D., Dundar P.
JOURNAL OF APPLIED MATHEMATICS, 2013 (SCI-Expanded, Scopus)
12. **Average Lower Domination Number for some Middle Graphs**
DURGUN D.
International Journal of Mathematical Combinatorics, no.4, pp.58-67, 2012 (Peer-Reviewed Journal)
13. **YÜZEYLERİN SİMETRİLERİ ÜZERİNE BAZI UYGULAMALAR**
DURGUN D., KAZAZ M.
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, pp.9-18, 2010 (TRDizin)
14. **Weak and Strong Reinforcement Number of a Graph**
DURGUN D., DÜNDAR P., TURACI T.
International Journal of Mathematical Combinatorics, no.3, pp.91-97, 2010 (Peer-Reviewed Journal)

Papers Presented at Peer-Reviewed Scientific Conferences

1. **Studies on Some Types of Domination Graphs**
Doğan D., Toprakkaya E. N.
9th International Student Science Congress, Manisa, Turkey, 21 - 22 May 2025, pp.122-123, (Summary Text)
2. **Distance Related Domination Parameters**
CURA E.
8th International Students Science Congress, İzmir, Turkey, 23 May 2024, (Summary Text)
3. **Some Degree-Based Topological Indices**
Yeşildağ A.
8th International Students Science Congress, İzmir, Turkey, 23 May 2024, (Summary Text)
4. **Survey of Equi Integrity Value in Graphs**
DOĞAN DURGUN D., ŞAM E.
6th International Student Science Congress, İzmir, Turkey, 21 May 2022, (Summary Text)
5. **Equi Integrity Partitions in Graphs**
DOĞAN DURGUN D., ŞAM E.
5th International Students Science Congress, İzmir, Turkey, 21 May 2021, (Full Text)
6. **Roman Domination Algorithm in Graph Theory**
DOĞAN DURGUN D., TOPRAKKAYA E. N.
5th International Students Science Congress, İzmir, Turkey, 21 May 2021, (Summary Text)
7. **Roman Domination in Graph Theory**
DURGUN D., TOPRAKKAYA E. N.

4th International Students Science Congress, 18 - 19 September 2020, (Summary Text)

8. **Domination Parameters in Graph Theory**
   DURGUN D., TOPRAKKAYA E. N.
   3 rd International Student Science Congress, İzmir, Turkey, 3 - 04 May 2019, pp.380-385, (Full Text)
9. **Müntz-Legendre polynomial solutions of aclass of delay differential equations having first order nonlinear terms**
   DURGUN D., SEZER M., KALFAOĞLU B.
   2. InternationalStudents Science Congress, Turkey, 4 - 05 May 2018, (Full Text)
10. **ACN on Geometric Graphs**
    DURGUN D., BAGATARHAN A.
    16 th International Geometry Symposium, 4 - 07 July 2018, (Summary Text)
11. **Weak and Strong Domination in Thorn Graphs**
    DURGUN D., LÖKÇÜ B.
    International Science Conference, 29 June - 01 July 2018, (Summary Text)
12. **On the Average Covering Number of Pyramid and Circular Ladder Graphs**
    DURGUN D., BAGATARHAN A.
    International Science Conference, 29 June - 01 July 2018, (Summary Text)
13. **Weak and Strong Domination in Graphs**
    DURGUN D., LÖKÇÜ B.
    2. InternationalStudents Science Congress, 4 - 05 May 2018, (Summary Text)
14. **ACN on Graphs**
    DURGUN D., BAGATARHAN A.
    2. InternationalStudents Science Congress, 4 - 05 May 2018, (Summary Text)
15. **Average Covering number of grid graphs**
    DURGUN D., BAGATARHAN A.
    4th International Conferene on Pure and Applied Scienes(Renewable Energy), 23 - 25 November 2017, (Summary Text)
16. **Power of a path and an n-cycle**
    DURGUN D., BAGATARHAN A.
    4th International Conferene on Pure and Applied Scienes(Renewable Energy), 23 - 25 November 2017, (Summary Text)
17. **Özel Çizgelerde Ortalama Örtü Sayısı**
    DURGUN D., BAGATARHAN A.
    International Students Science Conference, 5 - 06 May 2017, (Summary Text)
18. **Dönüşüm Çizgelerin Paketleme Boyama Sayısı**
    DURGUN D., ÖZEN H. B.
    International Students Science Conference, 5 - 06 May 2017, (Summary Text)
19. **Average Covering Number for Some Graphs**
    DURGUN D., BAGATARHAN A.
    INTERNATIONAL WORKSHOP ONMATHEMATICAL METHODSIN ENGINEERING, 27 - 29 April 2017, (Summary Text)
20. **Strong and Weak Domination Numbers on Graphs**
    DURGUN D., BERNA L.
    28. Ulusal Matematik Sempozyumu, Antalya, Turkey, 7 - 09 September 2015, (Summary Text)
21. **On the 2 Rainbow Domination in Graphs**
    DURGUN D., ALTUNDAG F. N.
    Karatekin Mathematics Days 2014, 11 - 13 June 2014, (Summary Text)
22. **Average Lower Domination Numbers of Some Graphs**
    DURGUN D.
    2nd International Eurasian Conference on Mathematical Sciences and Appliacations, Bosna Hersek, Bosnia And Herzegovina, 26 - 29 August 2013, (Summary Text)

23. **Average Covering Numbers of Some Special Graphs**
DURGUN D., DÜNDAR P.
25 th Conference of European Chapter on Combinatorial Optimization, Antalya, Turkey, 26 - 28 April 2012, (Summary Text)
24. **The Average Domination Number of Middle Graphs of Some of the Well Known Graphs**
DURGUN D., TURACI T.
275 th Anniversary Conference on Graph Theory, Fort Wayne, United States Of America, 15 - 16 April 2011, (Summary Text)
25. **Bir İş Merkezinde Ortak Kullanımlı Yazıcıların Minimum Sayısının D Uzaklıklı Graflar Kullanılarak Hesaplanması**
DÜNDAR P., BALCI M. A., DURGUN D.
10. Ekonometri ve İstatistik Sempozyumu, Erzurum, Turkey, 27 - 29 May 2009, (Summary Text)

Academic and Administrative Experience

2013 - 2014

Courses

Undergraduate
DIFFERENTIAL EQUATIONS, Undergraduate, 2019-2020, 2017-2018, 2016-2017
BİTİRME PROJESİ, Undergraduate, 2019-2020
ARAŞTIRMA PROJESİ, Undergraduate, 2019-2020
NÜMERİK ANALİZ, Undergraduate, 2019-2020
BİTİRME PROJESİ I, Undergraduate, 2018-2019
ARAŞTIRMA PROJESİ II, Undergraduate, 2018-2019, 2017-2018, 2016-2017, 2015-2016
ANALİZ II, Undergraduate, 2018-2019, 2017-2018
SOSYAL SORUMLULUK PROJESİ, Undergraduate, 2018-2019, 2017-2018
MESLEKİ YABANCI DİL (İNGİLİZCE), Undergraduate, 2017-2018
NÜMERİK ANALİZ I, Undergraduate, 2017-2018, 2014-2015, 2013-2014
ANALİZ I, Undergraduate, 2017-2018
MATHEMATICS, Undergraduate, 2017-2018
NUMERICAL METHODS IN ENGINEERING, Undergraduate, 2017-2018
STATISTICS, Undergraduate, 2017-2018
ARAŞTIRMA PROJESİ I, Undergraduate, 2016-2017
GRAF TEORİSİNE GİRİŞ I, Undergraduate, 2016-2017
KISMİ DİFERANSİYEL DENKLEMLER II, Undergraduate, 2016-2017
DİFERANSİYEL DENKLEMLER II, Undergraduate, 2015-2016, 2014-2015
MATEMATİK II, Undergraduate, 2015-2016, 2014-2015, 2013-2014
NÜMERİK ANALİZ II, Undergraduate, 2015-2016, 2014-2015, 2013-2014
MATEMATİK I, Undergraduate, 2014-2015, 2013-2014
DİFERANSİYEL DENKLEMLER I, Undergraduate, 2014-2015
GRAFLAR VE ALGORİTMALAR, Undergraduate, 2013-2014
OYUN TEORİSİ, Undergraduate, 2013-2014
Undergraduate Double Major
ALGORİTMİK GRAF TEORİ, Undergraduate Double Major, 2018-2019, 2017-2018, 2016-2017, 2015-2016, 2014-2015, 2012-2013
İLERİ GRAF TEORİSİ II, Undergraduate Double Major, 2018-2019, 2017-2018, 2016-2017, 2015-2016, 2014-2015, 2013-

2014
GRAF TEORİSİ VE UYGULAMALARI, Undergraduate Double Major, 2017-2018, 2016-2017
İLERİ GRAF TEORİSİ I, Undergraduate Double Major, 2017-2018, 2016-2017, 2014-2015, 2013-2014
İLERİ MÜHENDİSLİK MATEMATİĞİ, Undergraduate Double Major, 2016-2017

Supervised Theses

DOĞAN DURGUN D., Çizgelerde eş bütünlük değerinin incelenmesi, Postgraduate, E.ŞAM(Student), 2023
DOĞAN DURGUN D., ÇİZGELERDE ÇEŞİTLİ BASKINLIK SAYILARI, Postgraduate, G.ÖZÇAMKAN(Student), 2023
DOĞAN DURGUN D., Kuvvetli Nonlineerliğe Sahip Diferansiyel Denklemlerin Çözümleri için Yeni Bir Analitik Yaklaşım ve Uygulamaları, Doctorate, H.SÜMER(Student), 2022
DOĞAN DURGUN D., Graflarda Roma baskınlık sayısı, Postgraduate, E.NİYAZİ(Student), 2021
DOĞAN DURGUN D., Transformasyon grafların paketleme boyama sayısı, Postgraduate, H.BÜŞRA(Student), 2019
DOĞAN DURGUN D., Graflarda zayıf ve güçlü baskınlık sayısı üzerine, Postgraduate, B.LÖKÇÜ(Student), 2019
DOĞAN DURGUN D., Graflarda ortalama örtü sayısı, Postgraduate, A.BAGATARHAN(Student), 2018

Peer Reviews in Scientific Publications

Other journals, April 2025
QUAESTIONES MATHEMATICAE, Other journals, April 2025
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Other journals, January 2017
Hittite Journal of Science and Engineering, Other journals, January 2017
Other journals, January 2017
Other journals, January 2017
Other journals, January 2017
Other journals, January 2016
Other journals, January 2016
Other journals, January 2016
Other journals, January 2016
Other journals, January 2016
Other journals, January 2016
Other journals, January 2016

Metrics

Publication: 44
Citation (WoS): 36
Citation (Scopus): 40
H-Index (WoS): 3
H-Index (Scopus): 3

Research Areas

Avesis Research Areas: Natural Sciences
WoS Research Areas: Mathematics
Scopus Research Areas: General Mathematics

Non Academic Experience

Technical University -Sofia (Bulgaristan), Erasmus Personel Ders Verme Hareketliliği
Universidade de Coimbra (Portekiz), Erasmus Personel Ders Verme Hareketliliği
Western Michigan University, Visitor Researcher (Misafir Araştırmacı)