Asst. Prof. HANDE TUNÇEL GÖLPEK

Personal Information

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ORCID: 0000-0001-9183-6732
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Education Information

Doctorate, Ege University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 2008 - 2013
Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Matematik (Yl) (Tezli), Turkey 2005 - 2007
Undergraduate, Ege University, Faculty Of Science, Matematik Bölümü, Turkey 2000 - 2005

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Bir grafın laplasyen matrisinin özdeğerleri ve diğer graf değişmezleri arasındaki ilişki, Ege University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2013
Postgraduate, Differential characters and multiplicative cohomology, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Matematik (Yl) (Tezli), 2007

Research Areas

Combinatorics

Academic Titles / Tasks

Assistant Professor, Izmir University Of Economics, Faculty Of Arts And Sciences, Department Of Mathematics, 2014 - 2016
Lecturer, Izmir University Of Economics, Faculty Of Arts And Sciences, Department Of Mathematics, 2012 - 2014
Lecturer PhD, Dokuz Eylul University, Denizcilik Fakültesi, 2012 - 2014
Research Assistant, Izmir University Of Economics, Faculty Of Arts And Sciences, Department Of Mathematics, 2005 - 2011

Academic and Administrative Experience

Dokuz Eylul University, 2015 - Continues

Courses

MATHEMATİCS 1, Undergraduate, 2019 - 2020, 2015 - 2016
CALCULUS 1, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2015 - 2016
MATHEMATİCS 3, Undergraduate, 2019 - 2020, 2014 - 2015
Mathematics 2, Undergraduate, 2014 - 2015
Mathematics 4, Undergraduate, 2014 - 2015
Calculus 2, Undergraduate, 2014 - 2015

Jury Memberships

Post Graduate, Post Graduate, Dokuz Eylül Üniversitesi, June, 2022

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Closeness of some tree structures**
   Tunçel Gölpek H.
   SOFT COMPUTING, vol.1, no.1, pp.1-13, 2023 (SCI-Expanded)
II. **On the spectrum of the normalized Laplacian for signed graphs: Interlacing, contraction, and replication**
   Atay F. M., Tuncel H.
   LINEAR ALGEBRA AND ITS APPLICATIONS, vol.442, pp.165-177, 2014 (SCI-Expanded)

Articles Published in Other Journals

I. **Results of Paired Domination of Some Special Graph Families on Transformation Graphs: G^{xy+} and G^{xy-}**
   Tunçel Gölpek H.
   Journal of New Theory, vol.44, pp.56-61, 2023 (Peer-Reviewed Journal)
II. **Computing closeness for some graphs**
   TUNÇEL GÖLPEK H., AYTAÇ A.
   ACTA UNIVERSITATIS SAPIENTIAE INFORMATICA, vol.15, no.2, pp.221-238, 2023 (ESCI)
III. **PAIRED DOMINATION IN TRANSFORMATION GRAPHS: Gxy+ and Gxy−**
   TUNÇEL GÖLPEK H., AYTAÇ A.
   BULLETIN OF THE INTERNATIONAL MATHEMATICAL VIRTUAL INSTITUTE, vol.13, no.3, pp.429-438, 2023 (Peer-Reviewed Journal)
IV. **VULNERABILITY OF BANANA TREES VIA CLOSENESS AND RESIDUAL CLOSENESS PARAMETERS**
   GÖLPEK H. T.
   Maltepe journal of mathematics, vol.4, no.2, pp.1-5, 2022 (Peer-Reviewed Journal)
V. **Strong and Weak Total Dominations in Various Corona Graphs and Characterization**
   TUNÇEL GÖLPEK H., AYTAÇ A.
   Romanian Journal of Mathematics and Computer Science, 2021 (Peer-Reviewed Journal)
VI. **Strong total domination and weak total domination in Mycielski's graphs**
   TUNÇEL GÖLPEK H., AYTAÇ A.
   malaya journal of matematik, vol.8, no.4, pp.1681-1686, 2020 (Peer-Reviewed Journal)
VII. **A Note on Laplacian Spectrum of Complementary Prisms**

TUNÇEL GÖLPEK H.
Turkish Journal of Mathematics and Computer Science, 2019 (Peer-Reviewed Journal)
VIII. **On the average lower domination number and some results of complementary prisms and graph join**
TUNÇEL GÖLPEK H., TURACI T., COŞKUN B.
Journal of Advanced Research in Applied Mathematics, vol.7, no.1, pp.52-61, 2015 (Peer-Reviewed Journal)

Books & Book Chapters

I. **İŞARETLİ KÖKLÜ ÇARPIM ÇİZGELERİ VE KÖK TEPESİ İŞARETLİ DÖNGÜ ÇİZGE ÜZERİNDE OLANLARININ LAPLASYEN SPEKTRUMU ÜZERİNE**
TUNÇEL GÖLPEK H.
in: FEN VE MATEMATİK BİLİMLERİ Teori, Güncel Araştırmalar ve Yeni Eğilimler, Düz Mehtap, Editor, IVPE, Cetinje, pp.83-95, 2020

Refereed Congress / Symposium Publications in Proceedings

I. **On Network Vulnerability: A Study of Closeness and Residual Closeness Parameters in Some Structures**
Tunçel Gölpek H.
INTERNATIONAL CONFERENCE ON COMPUTATIONAL INTELLIGENCE AND COMMUNICATION NETWORKS (ICCICN-23), Venice, Italy, 13 November 2023
II. **On vertex Vulnerability of Harary Graphs**
Tunçel Gölpek H.
International Dumlupinar Science and Mathematics Congress, IDUMAC, Kütahya, Turkey, 5 - 07 September 2022, pp.1-5
III. **Vulnerability of Banana Trees**
Tunçel Gölpek H.
6: Uluslararas Matematik Bilimi Konferans (ICMS 2022), İstanbul, Turkey, 20 - 24 July 2022, pp.1-5
IV. **A Note on Laplacian Spectrum of Complementary Prisms**
Tunçel Gölpek H.
INTERNATIONAL CONFERENCE ON MATHEMATICS AND MATHEMATICS EDUCATION ICMME'xx19, Konya, Turkey, 11 - 13 July 2019, vol.11, pp.72-80
V. **Effects of Some Graph Operations on Total Influence Number**
TUNÇEL GÖLPEK H.
International Conference of Mathematical Sciences (ICMS), İstanbul, Turkey, 31 July - 06 August 2018, vol.2086
VI. **Graph Theory Approach on Positioning Of Emergency Response Center for Marine (Oil) Pollution: Case Of Izmir Bay**
Tunçel Gölpek H., Kuleyin B.
2. ULUSLARARASI SOSYAL BİLİMLER SEMPOZYUMU, Erzurum, Turkey, 18 - 20 May 2017, pp.1387-1395
VII. **On Spectrum of the Normalized Laplacian for Signed Graphs**
TUNÇEL GÖLPEK H.
Workshop on Graph Theory and its Applications, IMBM BOĞAZİÇİ UNIVERSİTY, İstanbul, Turkey, 27 - 28 November 2015
VIII. **Spectrum of Signed Graphs**
TUNÇEL GÖLPEK H.
Discrete and Continuous Models in the Theory of Networks, ZIF BIELEFELD GERMANY, Bielefeld, Germany, 11 March - 18 November 2015
IX. **POSITIONING OF ENERGY SOURCE VIA DISTANCE IN GRAPH**
TUNÇEL GÖLPEK H., DÜNDAR P.

2nd International Conference on Nuclear and Renewable Energy Resources, ANKARA, 4 - 07 July 2010

X. **A GRAPH COLORING APPROACH TO AIRLINE CREW SCHEDULING PROBLEM**
DÜNDAR P., TUNÇEL GÖLPEK H., KILINÇÇEKER O.
International Conference of Mathematical Sciences, ISTANBUL, 4 - 10 August 2009

Scientific Refereeing

THE COMPUTER JOURNAL, SCI Journal, November 2023
THE COMPUTER JOURNAL, National Scientific Refreed Journal, May 2023
MATHEMATISCHE ANNALEN, National Scientific Refreed Journal, July 2020

Metrics

Publication: 21
Citation (WoS): 15
Citation (Scopus): 18
H-Index (WoS): 2
H-Index (Scopus): 1

Congress and Symposium Activities

6: Uluslararas Matematik Bilimi Konferans (ICMS 2022), Session Moderator, İstanbul, Turkey, 2022