

Res. Asst. MURAT ÖZKAYA

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Mathematical Engineering, Turkey 2020 - Continues

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Mathematical Engineering, Turkey 2016 - 2018

Undergraduate, Bolu Abant İzzet Baysal University, Faculty Of Arts And Sciences, Turkey 2011 - 2016

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Postgraduate, The Roles of Matrix Norms in the Game Theory, Istanbul Technical University, Fen Bilimleri Enstitüsü, Mathematical Engineering, 2018

Research Areas

Quantitative Methods, Mathematics, Game Theory

Academic Titles / Tasks

Research Assistant, Canakkale Onsekiz Mart University, Siyasal Bilgiler Fakültesi, İşletme, 2020 - Continues

Academic and Administrative Experience

Erasmus Program Department Coordinator, Canakkale Onsekiz Mart University, Siyasal Bilgiler Fakültesi, İşletme, 2022 - Continues

Bölüm Kalite Komisyonu Üyesi, Canakkale Onsekiz Mart University, Siyasal Bilgiler Fakültesi, İşletme, 2022 - Continues
Adaptation/Exemption Committee Member, Canakkale Onsekiz Mart University, Siyasal Bilgiler Fakültesi, İşletme, 2022 - Continues

Birim Kalite Komisyonu Üyesi, Canakkale Onsekiz Mart University, Siyasal Bilgiler Fakültesi, İşletme, 2021 - Continues

Taught Courses And Trainings

Özkaya M., Python Eğitimi, 2022 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Matrix norm methods for zero-sum fuzzy matrix games with payoffs of triangular fuzzy numbers**
İzgi B., Köçken H., Özkaya M.
APPLIED MATHEMATICS AND COMPUTATION, vol.479, pp.128874, 2024 (SCI-Expanded)
- II. **Matrix norm based hybrid Shapley and iterative methods for the solution of stochastic matrix games**
İzgi B., Özkaya M., Üre N. K., Perc M.
APPLIED MATHEMATICS AND COMPUTATION, vol.473, pp.128638, 2024 (SCI-Expanded)
- III. **Machine learning driven extended matrix norm method for the solution of large-scale zero-sum matrix games**
İzgi B., Özkaya M., Üre N. K., Perc M.
JOURNAL OF COMPUTATIONAL SCIENCE, vol.68, pp.101997, 2023 (SCI-Expanded)
- IV. **Extended matrix norm method: Applications to bimatrix games and convergence results**
İzgi B., Özkaya M., Üre N. K., Perc M.
APPLIED MATHEMATICS AND COMPUTATION, vol.438, pp.127553, 2023 (SCI-Expanded)
- V. **Axioms of Decision Criteria for 3D Matrix Games and Their Applications**
Özkaya M., İzgi B., Perc M.
MATHEMATICS, vol.10, no.23, pp.4524, 2022 (SCI-Expanded)
- VI. **Effects of the Quarantine on the Individuals' Risk of Covid-19 Infection: Game Theoretical Approach**
Özkaya M., İzgi B.
ALEXANDRIA ENGINEERING JOURNAL, vol.60, no.4, pp.4157-4165, 2021 (SCI-Expanded)
- VII. **A new perspective to the solution and creation of zero sum matrix game with matrix norms**
İzgi B., Özkaya M.
APPLIED MATHEMATICS AND COMPUTATION, vol.341, pp.148-159, 2019 (SCI-Expanded)

Articles Published in Other Journals

- I. **The Accession Process of Finland and Sweden to NATO by Türkiye's Perspective from the Point of Game Theory**
Özkaya M., Baştan Y., İzgi B.
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.24, no.3, pp.583-592, 2024 (Peer-Reviewed Journal)
- II. **Modeling the War of Militarily Inequivalent Two Countries by Game Theory**
Özkaya M., Bakkaloğlu A.
Journal of advanced research in natural and applied sciences (Online), vol.9, no.2, pp.268-275, 2023 (Peer-Reviewed Journal)
- III. **The Effects of the Big Data Concept on the Marketing Mix**
Bil E., Özkaya M.
Afyon Kocatepe Üniversitesi Sosyal Bilimler Dergisi, vol.24, no.3, pp.969-980, 2022 (Peer-Reviewed Journal)
- IV. **Influencerların Algılanan Özelliklerinin Tüketici Satın Alma Davranışı Üzerindeki Etkisi**
Bil E., İnal M., Özkaya M.
Pazarlama ve Pazarlama Araştırmaları Dergisi, vol.15, no.1, pp.219-244, 2022 (Peer-Reviewed Journal)
- V. **Mathematical Modeling of an International Crisis with Game Theory**
Özkaya M., İzgi B.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.10, no.4, pp.1334-1341, 2021 (Peer-Reviewed Journal)

- VI. **A Brief Comparison of Big Data Analysis and Traditional Marketing Research**
Bil E., Özkaya M.
TroyAcademy, vol.6, no.2, pp.462-476, 2021 (Peer-Reviewed Journal)
- VII. **The Demonstration of the Necessity of Agriculture Insurance by the Game Theory: Matrix Norm Approach**
İzgi B., Özkaya M.
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.20, no.5, pp.824-831, 2020 (Peer-Reviewed Journal)
- VIII. **Demonstration of the Fairness of a Matrix Game with Matrix Norms**
İzgi B., Özkaya M.
Int. J. Adv. Eng. Pure Sci., no.2, pp.126-132, 2018 (Peer-Reviewed Journal)
- IX. **Norm Inequalities and Applications in 3-Dimensional Matrices**
İzgi B., Özkaya M.
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, no.31302, pp.906-913, 2017 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Gelişen Ekonomisiyle Çanakkale**
Dalyancı H. L., Sağlam M. S., Özkaya M.
in: Çanakkale Araştırmaları Sosyal, Kültürel, Ekonomik ve Çevresel Yönleriyle Çanakkale, Prof. Dr. Hüseyin Erkul, Prof. Dr. Pelin Kanten, Doç. Dr. Erkan Bil, Dr. Öğr. Üyesi Hafize Seçtim, Editor, Beta Yayınevi, İstanbul, pp.133-152, 2023

Refereed Congress / Symposium Publications in Proceedings

- I. **Hybrid Shapley Iteration for Stochastic Matrix Games**
İzgi B., Özkaya M.
International Conference on Modern Problems of Mathematics, Mechanics and their Applications, Baku, Azerbaijan, 20 - 22 June 2024, pp.244-245
- II. **Numerical Approach for Stochastic Matrix Games with Chaos Number Transformations**
İzgi B., Özkaya M.
International Conference on Modern Problems of Mathematics, Mechanics and their Applications, Baku, Azerbaijan, 20 - 22 June 2024, pp.242-243
- III. **S400 vs Patriot: A Brief Analysis with Devision Making Methods under Uncertainty**
Özkaya M., İzgi B.
2. International Congress on Modern Sciences, Toskent, Uzbekistan, 16 - 17 December 2022, pp.792-805
- IV. **Application of Matrix Norm Method with Artificial Intelligence**
İzgi B., Özkaya M., Üre N. K.
2. International Congress on Modern Sciences, Toskent, Uzbekistan, 16 - 17 December 2022, pp.806-815
- V. **The Investigation of the Effects of the Quarantine on Infection Before and After Vaccination During Covid-19 Pandemic Using Game Theory**
Özkaya M., İzgi B.
İğdir International Applied Sciences Congress, İğdir, Turkey, 14 - 15 April 2021, pp.175-184
- VI. **Norm Inequalities and Applications in 3-Dimensional Matrices**
İzgi B., Özkaya M.
International Conference of Mathematics and Related Sciences, İstanbul, Turkey, 3 - 07 July 2017, vol.1991, pp.200081-200085
- VII. **A Novel Approach to Matrix Game Solution**

İzgi B., Özkaya M.

I. International Conference on Mathematical and Related Sciences, Antalya, Turkey, 30 April - 04 May 2018, pp.64

VIII. **Some Properties on the 3-Dimensional Matrices**

İzgi B., Özkaya M.

I. International Conference on Mathematical and Related Sciences, Antalya, Turkey, 30 April - 04 May 2018, pp.63

IX. **Fundamental Concept of 3-D Matrices**

İzgi B., Özkaya M.

International Conference of Mathematical and Related Sciences, Antalya, Turkey, 4 - 06 April 2018

Supported Projects

Bil E., İnal M., Özkaya M., Gürdal S., EU Supported Other Project, Skill Sets and Needs for Behavioral Science Lab, 2023 - 2025

İzgi B., Üre N. K., TUBITAK Project, Stokastik Oyunlar İçin Matris Norm Tabanlı Yeni Çözüm Yöntemleri Ve Yapay Zeka Uygulamaları, 2021 - 2023

Activities in Scientific Journals

Management and Political Sciences Reviews, Assistant Editor/Section Editor, 2023 - Continues

Scientific Refereeing

JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, Journal Indexed in SCI-E, September 2023

SOFT COMPUTING, Journal Indexed in SCI-E, August 2023

SOFT COMPUTING, Journal Indexed in SCI-E, December 2022

JOURNAL OF BUILDING ENGINEERING, Journal Indexed in SCI-E, September 2021

Tasks In Event Organizations

Kıray A., Kanten P., Orak H., Özkaya M., İnal M., Örgüt Kuramı Sempozyumu, Scientific Congress, Çanakkale, Turkey, Şubat 2023

Kanten P., Pazarçık Y., Bayraktar Köse E., Özkaya M., İnal M., Orak H., Lisansüstü Öğrenci Kongresi, Scientific Congress, Çanakkale, Turkey, Kasım 2022

Pazarçık Y., Bayraktar Köse E., İnal M., Orak H., Özkaya M., MONUS Y., 9.Örgütsel Davranış Kongresi, Scientific Congress, Çanakkale, Turkey, Kasım 2022

Metrics

Publication: 26

Citation (WoS): 14

H-Index (WoS): 2