

Lect. PhD Ezgi Türkarslan

Personal Information

Office Phone: [+90 312 585 0055](tel:+903125850055)

Email: ezgi.turkarslan@tedu.edu.tr

Web: <https://avesis.tedu.edu.tr/ezgi.turkarslan>

International Researcher IDs

ScholarID: Fwj-WbwAAAAJ

ORCID: 0000-0001-5736-839X

Publons / Web Of Science ResearcherID: AAQ-2241-2021

ScopusID: 57223028058

Yoksis Researcher ID: 298900

Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Turkey 2017 - 2023

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Turkey 2015 - 2017

Undergraduate, Ankara University, Fen Fakültesi, Matematik Bölümü, Turkey 2009 - 2013

Dissertations

Postgraduate, Bulanık ölçünün belirlenmesinde karşılaşılan hesaplama çabasını azaltmaya duyarlı yaklaşımlar, Ankara University, Fen Bilimleri Enstitüsü, 2017

Research Areas

Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Lecturer, TED University, Faculty Of Arts And Sciences, Mathematics, 2022 - Continues

Research Assistant, TED University, Faculty Of Arts And Sciences, Mathematics, 2019 - 2022

Courses

Linear Algebra and Differential Equations, Undergraduate, 2023 - 2024, 2022 - 2023

Vector and Complex Calculus, Undergraduate, 2022 - 2023

Multivariable Calculus, Undergraduate, 2022 - 2023

Mathematics for Social Sciences II, Undergraduate, 2022 - 2023

Linear Algebra, Undergraduate, 2022 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **An extended EDAS method with circular intuitionistic fuzzy value features and its application to multi-criteria decision-making process**
Garg H., ÜNVER M., OLGUN M., Türkarslan E.
Artificial Intelligence Review, vol.56, pp.3173-3204, 2023 (SCI-Expanded)
- II. **Consistency fuzzy cross entropy based VIKOR approach for multi-criteria decision making**
Türkarslan E., Ye J., ÜNVER M., OLGUN M.
Iranian Journal of Fuzzy Systems, vol.20, no.4, pp.39-56, 2023 (SCI-Expanded)
- III. **Measure Identification for the Choquet Integral: A Python Module**
Türkarslan E., Torra V.
International Journal of Computational Intelligence Systems, vol.15, no.1, 2022 (SCI-Expanded)
- IV. **Intuitionistic fuzzy-valued neutrosophic multi-sets and numerical applications to classification**
ÜNVER M., Türkarslan E., Celik N., OLGUN M., Ye J.
COMPLEX & INTELLIGENT SYSTEMS, vol.8, no.2, pp.1703-1721, 2022 (SCI-Expanded)
- V. **Single and Interval-Valued Hybrid Enthalpy Fuzzy Sets and a TOPSIS Approach for Multicriteria Group Decision Making**
OLGUN M., Türkarslan E., Ye J., ÜNVER M.
MATHEMATICAL PROBLEMS IN ENGINEERING, vol.2022, 2022 (SCI-Expanded)
- VI. **Consistency Fuzzy Sets and a Cosine Similarity Measure in Fuzzy Multiset Setting and Application to Medical Diagnosis**
Türkarslan E., Ye J., ÜNVER M., OLGUN M.
Mathematical Problems in Engineering, vol.2021, 2021 (SCI-Expanded)
- VII. **A Cosine Similarity Measure Based on the Choquet Integral for Intuitionistic Fuzzy Sets and Its Applications to Pattern Recognition**
OLGUN M., Türkarslan E., ÜNVER M., Ye J.
INFORMATICA, vol.32, no.4, pp.849-864, 2021 (SCI-Expanded)

Articles Published in Other Journals

- I. **An extension of CODAS method for multi-criteria group decision making with complex intuitionistic fuzzy information via Dombi sine weighted arithmetic aggregation operators**
Garg H., OLGUN M., ÜNVER M., Türkarslan E.
Granular Computing, vol.8, no.6, pp.1467-1480, 2023 (Scopus)
- II. **MAGDM Model Using the Aczel-Alsina Aggregation Operators of Neutrosophic Entropy Elements in the Case of Neutrosophic Multi-Valued Sets**
Li W., Ye J., Türkarslan E.
Neutrosophic Sets and Systems, vol.57, 2023 (Scopus)
- III. **A Choquet Integral Based Cosine Similarity Measure for Interval-Valued Intuitionistic Fuzzy Sets and an Application to Pattern Recognition**
Garg H., OLGUN M., Türkarslan E., ÜNVER M.
Lobachevskii Journal of Mathematics, vol.43, no.9, pp.2444-2452, 2022 (ESCI)
- IV. **Algebraic and Einstein weighted operators of neutrosophic enthalpy values for multi-criteria decision making in neutrosophic multi-valued set settings**
Ye J., Türkarslan E., ÜNVER M., OLGUN M.
GRANULAR COMPUTING, vol.7, no.3, pp.479-487, 2022 (ESCI)
- V. **Cosine and Cotangent Similarity Measures Based on Choquet Integral for Spherical Fuzzy Sets and Applications to Pattern Recognition**
ÜNVER M., OLGUN M., TÜRKARSLAN E.
Journal of Computational and Cognitive Engineering, vol.1, no.1, pp.21-31, 2022 (Peer-Reviewed Journal)
- VI. **q-Rung Orthopair Fuzzy Topological Spaces**
Türkarslan E., ÜNVER M., OLGUN M.

LOBACHEVSKII JOURNAL OF MATHEMATICS, vol.42, no.2, pp.470-478, 2021 (ESCI)

VII. 2-Additive Choquet Similarity Measures For Multi-Period Medical Diagnosis in Single-Valued Neutrosophic Set Setting

OLGUN M., Türkarslan E., ÜNVER M., Ye J.

Neutrosophic Sets and Systems, vol.45, pp.8-25, 2021 (Scopus)

VIII. Cryptography in Terms of Triangular Neutrosophic Numbers with Real Life Applications

Hamza A., Jafar M. N., Habib A., Farooq S., TÜRKARSLAN E.

INTERNATIONAL JOURNAL OF MEDICAL ARTS, vol.11, no.1, pp.39-52, 2020 (Peer-Reviewed Journal)

IX. Nonagonal Neutrosophic Linear Non-Linear Numbers, Alpha Cuts and Their Applications using TOPSIS

Jafar M. N., Türkarslan E., Hamza A., Farooq S.

International Journal of Neutrosophic Science, vol.10, no.1, pp.45-64, 2020 (Scopus)

Books & Book Chapters

I. q-Rung Orthopair Fuzzy Points and Applications to q-Rung Orthopair Fuzzy Topological Spaces and Pattern Recognition

Türkarslan E., Ünver M., Olgun M., Yardımcı Ş.

in: Advances in Topology and Their Interdisciplinary Applications , Santanu Acharje, Editor, Springer Nature, Singapore, pp.245-259, 2023

II. Some trigonometric similarity measures based on Choquet integral for Pythagorean fuzzy sets and its applications to pattern recognition

Türkarslan E., Olgun M., Ünver M., Yardımcı Ş.

in: Pythagorean Fuzzy Sets: Theory and Applications, Harish Garg, Editor, Springer Nature, Singapore, pp.83-106, 2021

III. 2-Additive Choquet cosine similarity measures for simplified neutrosophic sets and applications to medical diagnosis

Türkarslan E., Olgun M., Ünver M., Yardımcı Ş.

in: Decision-Making with Neutrosophic Set: Theory and Applications in Knowledge Management, Harish Garg, Editor, NOVA Science Publishers Inc. , New York, pp.259-281, 2021

Refereed Congress / Symposium Publications in Proceedings

I. A Vector Valued Similarity Measure Based on the Choquet Integral for Intuitionistic Fuzzy Sets and Its Application to Pattern Recognition

Türkarslan E., Ünver M., Olgun M.

International Conference on Intelligent and Fuzzy Systems, INFUS 2021, İstanbul, Turkey, 24 - 26 August 2021, vol.308, pp.84-92

Supported Projects

Olgun M., Türkarslan E., Ünver M., Yardımcı Ş., TUBITAK Project, Bulanık Kümeler İçin Bulanık İntegral Tabanlı Benzerlik Ölçüleri ve Örüntü tanıma Üzerine Uygulamaları, 2021 - 2022

Scholarships

2214-A Yurt Dışı Doktora Sırası Araştırma Burs Programı, TUBITAK, 2022 - 2022

2211-A Genel Yurt İçi Doktora Burs Programı, TUBITAK, 2018 - 2022

Awards

Türkarlan E., TED Üniversitesi Yayın Ödülü , Ted Üniversitesi, October 2022

Türkarlan E., TED Üniversitesi Yayın Ödülü , Ted Üniversitesi, July 2022

Türkarlan E., TED Üniversitesi Yayın Ödülü , Ted Üniversitesi, February 2022

Türkarlan E., TED Üniversitesi Yayın Ödülü , Ted Üniversitesi, July 2021