

Asst. Prof. ALİ AYDOĞDU

Personal Information

Email: aaydogdu@marmara.edu.tr

Web: <https://avesis.marmara.edu.tr/aaydogdu>

International Researcher IDs

ScholarID: r7t1ToAAAAAJ

ORCID: 0000-0002-9718-7611

Publons / Web Of Science ResearcherID: C-2002-2019

ScopusID: 57193830482

Education

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Matematik Anabilim Dalı, Turkey 2008 - 2014

Undergraduate, Ataturk University, Kâzım Karabekir Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi, Turkey 2003 - 2008

Research Areas

Mathematical Logic and Foundations, Number Theory

Academic Positions

Assistant Professor, Marmara University, Faculty of Sciences, Department of Mathematics, 2025 - Continues

Assistant Professor, National Defense University, 2019 - 2025

Assistant Professor, Beykent University, 2017 - 2019

Lecturer, Kocaeli University, 2016 - 2016

Research Assistant, Ataturk University, Fen Bilimleri Enstitüsü, Matematik Anabilim Dalı, 2010 - 2015

Journal articles indexed in SCI, SSCI, and AHCI

- I. **New information measures for linear Diophantine fuzzy sets and their applications with LDF-ARAS on data storage system selection problem**
Aydoğdu A., Gül S., Alniak T.
EXPERT SYSTEMS WITH APPLICATIONS, vol.252, 2024 (SCI-Expanded)
- II. **Novel distance and entropy definitions for linear Diophantine fuzzy sets and an extension of TOPSIS (LDF-TOPSIS)**
Gül S., Aydoğdu A.
EXPERT SYSTEMS, vol.40, no.1, 2023 (SCI-Expanded)
- III. **Novel Linear Diophantine Fuzzy Information Measures Based Decision Making Approach Using Extended VIKOR Method**
Aydogdu A.
IEEE ACCESS, vol.11, pp.95526-95544, 2023 (SCI-Expanded)
- IV. **New entropy propositions for interval-valued spherical fuzzy sets and their usage in an extension of**

ARAS (ARAS-IVSFS)

Aydođdu A., Gül S.

EXPERT SYSTEMS, vol.39, no.4, 2022 (SCI-Expanded)

- V. **Novel Entropy Measure Definitions and Their Uses in a Modified Combinative Distance-Based Assessment (CODAS) Method Under Picture Fuzzy Environment**
Gül S., Aydođdu A.
INFORMATICA, vol.32, no.4, pp.759-794, 2021 (SCI-Expanded)
- VI. **A novel entropy proposition for spherical fuzzy sets and its application in multiple attribute decision-making**
Aydođdu A., Gül S.
INTERNATIONAL JOURNAL OF INTELLIGENT SYSTEMS, vol.35, no.9, pp.1354-1374, 2020 (SCI-Expanded)
- VII. **EXPLICIT FORMS OF THE TRACE FORMULA FOR $GL(2)$**
Aydođdu A., Flicker Y. Z., Özkan E., Ozturk R.
JOURNAL D ANALYSE MATHEMATIQUE, vol.131, pp.1-71, 2017 (SCI-Expanded)

Articles Published in Other Journals

- I. **Novel Subsethood Measures for Totally Dependent-Neutrosophic Sets and Their Usage in Multiple Attribute Decision-Making**
Gül S., Aydođdu A.
Neutrosophic Sets and Systems, vol.55, pp.187-202, 2023 (Scopus)
- II. **Novel Distance Measure for Linear Diophantine Fuzzy Sets**
AYDOĐDU A., ÖZKAN E.
Research & Reviews: Discrete Mathematical Structures, vol.9, no.2, pp.38-45, 2022 (Peer-Reviewed Journal)
- III. **SOME PROPERTIES OF K-GENERALIZED FIBONACCI NUMBERS**
Yilmaz N., Aydođdu A., ÖZKAN E.
Mathematica Montisnigri, vol.50, pp.73-79, 2021 (Scopus)
- IV. **Neutrosophic Küme Üzerinde Yeni Entropi Ölçüsü ve Çok Kriterli Karar Verme Uygulamaları**
AYDOĐDU A., ŞAHİN R.
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.23, no.1, pp.40-45, 2019 (Peer-Reviewed Journal)
- V. **3-Fibonacci Polynomials in The Family of Fibonacci Numbers**
ÖZKAN E., Taştan M., AYDOĐDU A.
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.12, no.2, pp.926-933, 2019 (Peer-Reviewed Journal)
- VI. **A Sequence Bounded Above by the Lucas Numbers**
ÖZKAN E., AYDOĐDU A., Göçer A.
SAKARYA UNIVERSITY JOURNAL OF SCIENCE, vol.22, no.6, pp.1853-1856, 2018 (Peer-Reviewed Journal)
- VII. **2-Fibonacci polynomials in the family of Fibonacci numbers**
ÖZKAN E., Taştan M., AYDOĐDU A.
NOTES ON NUMBER THEORY AND DISCRETE MATHEMATICS, vol.24, no.3, pp.47-55, 2018 (ESCI)
- VIII. **Some Identities for a Family of Fibonacci and Lucas Numbers**
ÖZKAN E., AYDOĐDU A., Altun İ.
Journal of Mathematics and Statistical Science, vol.3, no.10, pp.295-303, 2017 (Peer-Reviewed Journal)
- IX. **ON ENTROPY AND SIMILARITY MEASURE OF INTERVAL VALUED NEUTROSOPHIC SETS**
AYDOĐDU A.
Neutrosophic Sets and Systems, vol.9, pp.47-49, 2015 (Peer-Reviewed Journal)
- X. **ON SIMILARITY AND ENTROPY OF SINGLE VALUED NEUTROSOPHIC SETS**
AYDOĐDU A.
General Mathematics Notes, vol.29, no.1, pp.67-74, 2015 (Peer-Reviewed Journal)
- XI. **ON THE FACTOR RINGS OF EISENSTEIN INTEGERS**

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **A Novel Entropy Measure Based on Similarity Measure for Spherical Fuzzy Sets and Its Application on Multicriteria Decision Making Problems**
AYDOĞDU A.
Turkish Journal of Mathematics - Studies on Scientific Developments in Geometry, Algebra, and Applied Mathematics, Turkey, 1 - 03 February 2022, (Summary Text)
- II. **SUBSETHOOD MEASURE FOR PICTURE FUZZY SETS**
AYDOĞDU A.
4th INTERNATIONAL MARMARA SCIENCES CONGRESS, Kocaeli, Turkey, 19 - 20 June 2020, pp.557-562, (Full Text)
- III. **Explicit Computation of the Unipotent Terms in The Trace Formula for $GL(2)$ Over a Number Field**
AYDOĞDU A., ÖZKAN E., ÖZTÜRK R.
INTERNATIONAL CONFERENCE on MATHEMATICAL ADVANCES and APPLICATIONS (ICOMAA2018), İstanbul, Turkey, 11 - 13 May 2018, (Summary Text)
- IV. **On 2-Fibonacci Polynomials**
ÖZKAN E., Taştan M., AYDOĞDU A.
INTERNATIONAL CONFERENCE on MATHEMATICAL ADVANCES and APPLICATIONS (ICOMAA2018), İstanbul, Turkey, 11 - 13 May 2018, (Summary Text)
- V. **On Fibonacci Polynomials in the Family of Fibonacci Numbers**
ÖZKAN E., Taştan M., AYDOĞDU A.
7th International Conference on Applied Analysis and Mathematical Modeling (ICAAMM-2018), İstanbul, Turkey, 20 - 24 April 2018, pp.256, (Summary Text)
- VI. **A new sequence defined by h-vectors, which is bounded above by the Lucas number**
ÖZKAN E., AYDOĞDU A., Göçer A.
II. Uluslararası İğdir Sempozyumu, İğdir, Turkey, 9 - 11 October 2017, (Summary Text)
- VII. **On The Relationship Between A Family of Fibonacci And Lucas Numbers**
Altun İ., AYDOĞDU A., ÖZKAN E.
4 th International Conference on Recent Advances In Pure And Applied Mathematics, 11 - 15 May 2017, (Summary Text)
- VIII. **An Alternative Proof for a Lemma Used in the Trace Formula for $GL(2)$ Over a Number Field**
ÖZTÜRK R., AYDOĞDU A., ÖZKAN E.
International Conference on Pure and Applied Mathematics, 25 - 28 August 2015, (Summary Text)
- IX. **On Entropy of Single Valued Neutrosophic Sets**
AYDOĞDU A., ŞAHİN R.
INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELING, 8 - 12 June 2015, (Summary Text)
- X. **Flicker s Correction Argument For The Trace Formula Of $GL 2$ On A Number Field**
AYDOĞDU A., ÖZTÜRK R., ÖZKAN E.
International Conference on Algebra and Number Theory, Samsun, Turkey, 5 - 08 August 2014, pp.16-17, (Summary Text)
- XI. **The Trace Formula for $GL 2$ over a Global Field**
ÖZTÜRK R., AYDOĞDU A., ÖZKAN E., Flicker Y. Z.
Second International Eurasian Conference on Mathematical Sciences and Applications, Saraybosna, Bosnia And Herzegovina, 26 - 29 August 2013, (Summary Text)
- XII. **Transfer of Orbital Integrals and Division Algebras**
AYDOĞDU A., ÖZTÜRK R., ÖZKAN E., FLICKER Y. Z.
First International Eurasian Conference on Mathematical Sciences and Applications, Priştine, Kosovo, 3 - 07

September 2012, (Summary Text)

XIII. Eisenstein Tamsayıları Halkasının Bölüm Halkaları Üzerine

ÖZTÜRK R., AYDOĞDU A., ÖZKAN E.

XXIV. Ulusal Matematik Sempozyumu, Bursa, Turkey, 7 - 10 September 2011, (Summary Text)

Funded Projects

ÖZKAN E., AYDOĞDU A., Project Supported by Higher Education Institutions, Yarıbasit Gruplar İçin İz Formülü, 2013 - 2014

Aydoğdu A., Öztürk R., Özkan E., Project Supported by Higher Education Institutions, $GL(2,F)$ için Metaplectic Uygunluk, 2013 - 2014

Metrics

Publication: 31

Citation (WoS): 133

Citation (Scopus): 145

H-Index (WoS): 6

H-Index (Scopus): 6

Scholarships

TUBITAK, 2009 - 2013

Awards

Aydoğdu A., Yayın Teşvik, Tübitak, January 2025

Aydoğdu A., Yayın Teşvik Ödülü, Tübitak, January 2023

Aydoğdu A., Yayın Teşvik, Tübitak, January 2020

Aydoğdu A., Yayın Teşvik, Tübitak, January 2017