

Asst. Prof. SEDA YAMAÇ AKBIYIK

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Education Information

Undergraduate, Istanbul Gelisim University, SCHOOL OF HEALTH SCIENCES, Beslenme Ve Diyetetik Bölümü, Turkey 2019 - 2023

Associate Degree, Anadolu University, Açıköğretim Fakültesi, Otel, Lokanta Ve İkram Hizmetleri Bölümü, Turkey 2017 - 2019

Doctorate, Yildiz Technical University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 2012 - 2018

Postgraduate, Yildiz Technical University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), Turkey 2010 - 2012

Undergraduate, Zonguldak Bülent Ecevit University, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 2005 - 2009

Dissertations

Doctorate, Kuaterniyon halkaları üzerinde lineer kodlar, Yildiz Technical University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2018

Postgraduate, Poset metrik ile kodların yapısı, Yildiz Technical University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), 2012

Academic Titles / Tasks

Assistant Professor, Istanbul Gelisim University, FACULTY OF ENGINEERING AND ARCHITECTURE, COMPUTER ENGINEERING, 2019 - Continues

Research Assistant, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2011 - 2018

Research Assistant, Karamanoglu Mehmetbey University, Kamil Özdağ Fen Fakültesi, Matematik, 2010 - 2011

Courses

Mathematics II, Undergraduate, 2021 - 2022

Matematik I, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

Matematik II, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

Numerical Analysis, Undergraduate, 2021 - 2022

Diferansiyel Denklemler, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

Olasılık ve İstatistik, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

Ayrık Matematik, Undergraduate, 2021 - 2022

Lineer Cebir, Undergraduate, 2020 - 2021, 2019 - 2020

LİNEAR ALGEBRA, Undergraduate, 2019 - 2020

İLERİ MATEMATİK, Undergraduate, 2019 - 2020

Mathematics I, Undergraduate, 2018 - 2019

Matematik II, Undergraduate, 2018 - 2019

Jury Memberships

Post Graduate, Post Graduate, Ankara Hacı Bayram Veli Üniversitesi, June, 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Determinants of circulant matrices with Gaussian Nickel Fibonacci numbers**
YILMAZ F., Ertaş A., Akbiyik S.
Filomat, vol.37, no.25, pp.8683-8692, 2023 (SCI-Expanded)
- II. **The matrices of Pauli quaternions, their De Moivre's and Euler's formulas**
Akbiyik M., Yamac Akbiyik S., Yilmaz F.
INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, vol.19, no.11, 2022 (SCI-Expanded)
- III. **On metallic ratio in $\mathbb{Z}_p$**
Yamaç Akbiyik S., Akbiyik M., YÜCE S.
Mathematical Methods in the Applied Sciences, vol.42, no.16, pp.5535-5550, 2019 (SCI-Expanded)

Articles Published in Other Journals

- I. **A New Approach to Technical Analysis of Oil Prices**
Akbiyik M., Akbiyik S. Y., Tura Ü., Erer E., Çalış M., Kaya F.
Turkish Journal of Mathematics and Computer Science, vol.15, no.1, pp.145-156, 2023 (Peer-Reviewed Journal)
- II. **On linear algebra of one type of symmetric matrices with harmonic Fibonacci entries**
AKBIYIK M., YAMAÇ AKBIYIK S., YILMAZ F.
NOTES ON NUMBER THEORY AND DISCRETE MATHEMATICS, vol.28, no.3, pp.399-410, 2022 (Peer-Reviewed Journal)
- III. **De Moivre-Type Identities for the Jacobsthal Numbers**
AKBIYIK M., YAMAÇ AKBIYIK S.
NOTES ON NUMBER THEORY AND DISCRETE MATHEMATICS, vol.27, no.3, 2021 (ESCI)
- IV. **De Moivre's and Euler Formulas for Matrices of Hybrid Numbers**
Akbiyik M., Akbiyik S., Karaca E., Yilmaz F.
AXIOMS, vol.10, no.3, 2021 (Scopus)
- V. **De Moivre-Type Identities for the Pell Numbers**
YAMAÇ AKBIYIK S., AKBIYIK M.
Turkish Journal of Mathematics and Computer Science, vol.13, no.1, pp.63-67, 2021 (Peer-Reviewed Journal)
- VI. **De Moivre-Type Identities for the Padovan Numbers**
AKBIYIK M., AKBIYIK S., ALO J.
Journal of Engineering Technology and Applied Sciences, vol.6, no.3, pp.155-160, 2021 (Peer-Reviewed Journal)
- VII. **CODES OVER THE MULTIPLICATIVE HYPERRINGS**
Yamaç Akbiyik S.
Turkish World Mathematical Society Journal of Applied and Engineering Mathematics, vol.11, no.4, pp.1260-1267, 2021 (Scopus)
- VIII. **DİSBİYOSİZ NEDİR?**
YAMAÇ AKBIYIK S., AKDAĞ B.
İstanbul Gelişim Üniversitesi Sağlık Bilimleri Fakültesi Beslenme ve Diyetetik Bölümü Öğrenci Dergisi, pp.10-16,

2021 (Peer-Reviewed Journal)

- IX. **MACWILLIAMS IDENTITIES FOR POSET LEVEL WEIGHT ENUMERATORS OF LINEAR CODES**
YAMAÇ AKBIYIK S.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.36, no.2, pp.405-418, 2018 (Peer-Reviewed Journal)
- X. **MACWILLIAMS IDENTITIES OVER SOME SPECIAL POSETS**
YAMAÇ AKBIYIK S., ŞİAP İ.
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.62, no.1, pp.61-71, 2013 (Peer-Reviewed Journal)
- XI. **A P-Complete Weight Enumerator With Respect to Poset Metric and its MacWilliams Identity**
YAMAÇ AKBIYIK S., ŞİAP İ.
Adıyaman Üniversitesi Fen Bilimleri Dergisi, vol.1, no.1, pp.28-39, 2011 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **DE MOIVRE-TYPE IDENTITIES FOR THE PADOVAN NUMBERS**
AKBIYIK M., YAMAÇ AKBIYIK S., ALO J.
9th International Congress on Fundamental and Applied Sciences 2022, İstanbul, Turkey, 28 June 2022
- II. **THE MATRICES OF PAULI QUATERNIONS, THEIR DE MOIVRE'S AND EULER'S FORMULAS**
AKBIYIK M., YAMAÇ AKBIYIK S., YILMAZ F.
XXI GEOMETRICAL SEMINAR, Belgrade, Serbia, 26 June 2022
- III. **De-Moivre's and Euler Formulas for Matrices of Hybrid Numbers**
AKBIYIK M., YAMAÇ AKBIYIK S., KARACA E., YILMAZ F.
II. International Conference on Mathematics and its Applications in Science and Engineering (ICMASE-2021), Spain, 01 July 2021
- IV. **On the Nickel Fibonacci Numbers**
YAMAÇ AKBIYIK S.
II. INTERNATIONAL CONFERENCE ON MATHEMATICS AND ITS APPLICATIONS IN SCIENCE AND ENGINEERING (ICMASE 2021), Salamanca, Mexico, 01 July 2021
- V. **De Moivre-Type Identities For The Jacobsthal Numbers**
AKBIYIK M., YAMAÇ AKBIYIK S.
II. International Conference on Mathematics and its Applications in Science and Engineering (ICMASE-2021), Spain, 1 - 02 July 2021
- VI. **A MACWILLIAMS TYPE IDENTITY FOR POSET LEVEL WEIGHT AND M SPOTTY POSET LEVEL WEIGHT ENUMERATORS**
YAMAÇ AKBIYIK S., ŞİAP İ.
The First International Western Balkan Conference of Mathematical Sciences 2013, 29 May - 02 June 2013
- VII. **MacWilliams Identity for Codes Over Forests**
YAMAÇ AKBIYIK S., ŞİAP İ.
The Algerian-Turkish International days on Mathematics 2012, Algeria, 9 - 11 October 2012
- VIII. **MacWilliams Identity for Codes Over Trees**
YAMAÇ AKBIYIK S., ŞİAP İ.
International Conference on Algebra, Applied Mathematics and Analysis, İstanbul, Turkey, 20 - 24 June 2012, pp.236
- IX. **Complete and byte m spotty poset level weight enumerators of linear codes over finite fields**
ŞİAP V., YAMAÇ AKBIYIK S., ŞİAP İ.
CMMSE Almeria, 6 - 08 June 2013

Activities in Scientific Journals

Hagia Sophia Journal of Geometry, Editor, 2018 - 2019