

Assoc. Prof. GÜLSÜM YELİZ SAÇLI

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAB-9422-2020

ScopusID: 56723924100

Yoksis Researcher ID: Arama/view/viewAkademikAuthor.jsp

Education Information

Doctorate, Yildiz Technical University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 2013 - 2019

Postgraduate, Yildiz Technical University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), Turkey 2011 - 2013

Undergraduate, Yildiz Technical University, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 2006 - 2011

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Lorentz düzleminde 2-parametrelili hareketler ve kutup eksen yoğunluğu, Yildiz Technical University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2019

Postgraduate, Darboux çatılı regle yüzeylerin karakteristik özellikleri, Yildiz Technical University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), 2013

Research Areas

Mathematics

Academic Titles / Tasks

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

Research Assistant, Yildiz Technical University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2012 - 2019

Academic and Administrative Experience

Istanbul Gelisim University, 2019 - 2022

Courses

DİFERANSİYEL DENKLEMLER, Undergraduate, 2023 - 2024
MATEMATİK II, Undergraduate, 2023 - 2024
MATEMATİK I, Undergraduate, 2023 - 2024
LİNEER CEBİR, Undergraduate, 2021 - 2022, 2019 - 2020
MAT219 SAYISAL ANALİZ (GÜZ), Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
MAT104 LİNEER CEBİR (GÜZ), Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
MATEMATİK I, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
İLERİ MÜHENDİSLİK MATEMATİĞİ, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
MAT219 SAYISAL ANALİZ (BAHAR), Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020
MAT106 MATEMATİK II, Undergraduate, 2021 - 2022
MAT203 DİFERANSİYEL DENKLEMLER (BAHAR), Undergraduate, 2021 - 2022
MAT219 SAYISAL ANALİZ (BAHAR) 2. Grup, Undergraduate, 2020 - 2021
MAT106 MATEMATİK II (BAHAR), Undergraduate, 2020 - 2021, 2019 - 2020
MAT451 İLERİ MATEMATİK (Bahar), Undergraduate, 2019 - 2020
MAT104 LİNEER CEBİR (Yaz), Undergraduate, 2019 - 2020
MAT219 SAYISAL ANALİZ (Yaz), Undergraduate, 2019 - 2020
MAT105 MATEMATİK I (Güz) 2. Grup, Undergraduate, 2019 - 2020
LINEAR ALGEBRA, Undergraduate, 2018 - 2019
MAT451 İLERİ MATEMATİK (Yaz), Undergraduate, 2019 - 2020
ISF500 DÖNEM PROJESİ (Tezsiz YL) (Yaz), Postgraduate, 2019 - 2020
MAT203 DİFERANSİYEL DENKLEMLER (Güz), Undergraduate, 2019 - 2020
MAT105 MATEMATİK I (Yaz), Undergraduate, 2018 - 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Similarity relations and exponential of dual-generalized complex matrices**
GÜRSES N., SAÇLI G. Y.
Analele Stiintifice ale Universitatii Ovidius Constanta, Seria Matematica, vol.31, no.3, pp.145-165, 2023 (SCI-Expanded)
- II. **A generalized quaternionic sequence with Vietoris' number components**
SAÇLI G. Y.
Filomat, vol.37, no.28, pp.9753-9768, 2023 (SCI-Expanded)
- III. **A study on densities of sets of points and lines**
Şentürk G. Y., YÜCE S.
Mathematical Methods in the Applied Sciences, vol.42, no.16, pp.5427-5437, 2019 (SCI-Expanded)
- IV. **A Geometric Aspect of the Two-Parameter Planar Lorentzian Motions**
Şentürk G. Y., YÜCE S.
Mathematical Problems in Engineering, vol.2018, 2018 (SCI-Expanded)
- V. **Bertrand Offsets of Ruled Surfaces with Darboux Frame**
Şentürk G. Y., YÜCE S.
Results in Mathematics, vol.72, no.3, pp.1151-1159, 2017 (SCI-Expanded)
- VI. **Characteristic properties of the ruled surface with Darboux frame in E^3**
Şentürk G. Y., YÜCE S.
Kuwait Journal of Science, vol.42, no.2, pp.14-33, 2015 (SCI-Expanded)

Articles Published in Other Journals

- I. **On Dual Quaternions with k-Generalized Leonardo Components**
YILMAZ Ç. Z., ŞENTÜRK G. Y.
Journal of New Theory, no.44, pp.31-42, 2023 (Peer-Reviewed Journal)
- II. **Investigating Generalized Quaternions with Dual-Generalized Complex Numbers**
Gürses N., Saçlı G. Y., Yüce S.
MATHEMATICA BOHEMICA, vol.148, no.3, pp.329-348, 2023 (ESCI)
- III. **New Insight into Quaternions and Their Matrices**
Şentürk G. Y., Gürses N., Yüce S.
Communications Faculty of Sciences University of Ankara Series A1: Mathematics and Statistics, vol.72, no.1, pp.43-58, 2023 (ESCI)
- IV. **Algebraic Construction for Dual Quaternions with GCN**
ŞENTÜRK G. Y., GÜRSES N., YÜCE S.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.11, no.2, pp.586-593, 2022 (Peer-Reviewed Journal)
- V. **A Comprehensive Survey of Dual-Generalized Complex Fibonacci and Lucas Numbers**
GÜRSES N., ŞENTÜRK G. Y., YÜCE S.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.40, no.1, pp.179-187, 2022 (ESCI)
- VI. **Construction of Dual-Generalized Complex Fibonacci and Lucas Quaternions**
ŞENTÜRK G. Y., GÜRSES N., YÜCE S.
CARPATHIAN MATHEMATICAL PUBLICATIONS, vol.14, no.2, pp.406-418, 2022 (ESCI)
- VII. **Fundamental properties of extended Horadam numbers**
ŞENTÜRK G. Y., GÜRSES N., YÜCE S.
NOTES ON NUMBER THEORY AND DISCRETE MATHEMATICS, vol.27, no.4, pp.219-235, 2021 (ESCI)
- VIII. **A study on dual-generalized complex and hyperbolic-generalized complex numbers**
GÜRSES N., Senturk G. Y., YÜCE S.
Gazi University Journal of Science, vol.34, no.1, pp.180-194, 2021 (Scopus)
- IX. **Examination of sets of points and non-null lines under the two-parameter Lorentzian motion**
ŞENTÜRK G. Y., YÜCE S.
JOURNAL OF SCIENCE AND ARTS, vol.51, no.2, pp.357-374, 2020 (ESCI)
- X. **On ruled non-degenerate surfaces with darboux frame in minkowski 3-space**
Şentürk G. Y., YÜCE S.
Turkish World Mathematical Society Journal of Applied and Engineering Mathematics, vol.10, no.2, pp.499-511, 2020 (ESCI)
- XI. **On the evolute offsets of ruled surfaces using the Darboux frame**
Şentürk G. Y., Yüce S.
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.68, no.2, pp.1256-1264, 2019 (ESCI)
- XII. **A Method for Mannheim Offsets of Ruled Surfaces**
ŞENTÜRK G. Y., YÜCE S.
JOURNAL OF SCIENCE AND ARTS, vol.4, no.45, pp.827-836, 2018 (ESCI)
- XIII. **Integral invariants of Mannheim offsets of ruled surfaces**
Şentürk G. Y., Yüce S., Kasap E.
Applied Mathematics E - Notes, vol.16, pp.198-209, 2016 (Scopus)
- XIV. **Properties of integral invariants of the involute-evolute offsets of ruled surfaces**
Şentürk G. Y., YÜCE S.
International Journal of Pure and Applied Mathematics, vol.102, no.4, pp.757-768, 2015 (Scopus)

Books & Book Chapters

- I. **Kompleks Matrisler**
Şentürk G. Y., Ay Ç., Ergül E., Aykut H. F.

in: Sayılar ve Matrisler Teorisi, YÜCE SALİM, Editor, Pegem Akademi Yayıncılık, Ankara, pp.10-179, 2023

II. Bikompleks Matrisler

Şentürk G. Y.

in: Sayılar ve Matrisler Teorisi, YÜCE SALİM, Editor, Pegem Akademi Yayıncılık, Ankara, pp.462-547, 2023

III. Kompleks Sayılar ve Öklid Düzlemi

ŞENTÜRK G. Y.

in: Sayılar ve Geometri, Salim Yüce, Editor, Pegem Akademi Yayıncılık, Ankara, pp.24-70, 2020

Refereed Congress / Symposium Publications in Proceedings

I. On the Dual-Generalized Complex Leonardo-like Sequence

YILMAZ Ç. Z., ŞENTÜRK G. Y.

The International Congress on Algebraic Hyperstructures and Applications (AHA 2023), İstanbul, Turkey, 28 - 30 July 2023, pp.46-47

II. Dual-Generalized Complex Matrices

GÜRSES N., ŞENTÜRK G. Y.

11th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2022), İstanbul, Turkey, 29 August - 01 September 2022, pp.190-192

III. On Vietoris' Hybrid Number Sequence

GÜRSES N., ŞENTÜRK G. Y., YÜCE S.

9th International Congress on Fundamental and Applied Sciences (ICFAS2022), İstanbul, Turkey, 28 - 30 June 2022, pp.134

IV. A Brief Study on Dual-Generalized Complex Leonardo Numbers

ŞENTÜRK G. Y.

5th International Conference on Mathematical Advances and Applications (ICOMAA 2022), İstanbul, Turkey, 11 - 14 May 2022, pp.104

V. A New Look on Oresme Numbers: Dual-Generalized Complex Component Extension

ŞENTÜRK G. Y., GÜRSES N., YÜCE S.

18th International Geometry Symposium, Malatya, Turkey, 12 July 2021, vol.4, pp.206-214

VI. Extended Dual Quaternion Approach Considering Dual-Generalized Complex Numbers

ŞENTÜRK G. Y.

4. International Conference on Life and Engineering Sciences (ICOLES 2021), İstanbul, Turkey, 23 - 25 September 2021

VII. A Comprehensive Survey of Dual Generalized Complex Fibonacci Numbers

GÜRSES N., ŞENTÜRK G. Y., YÜCE S.

3rd International E-Conference on Mathematical Advances and Applications (ICOMAA 2020), İstanbul, Turkey, 24 - 27 June 2020, pp.162

VIII. A Study on Mannheim Offsets of Ruled Surfaces

ŞENTÜRK G. Y., YÜCE S., KURUOĞLU N.

16 th international geometry symposium, Manisa, Turkey, 4 - 07 July 2018

IX. The Densities of The Sets of (Non) Collinear Points and Intersecting Lines in the Euclidean Plane

ŞENTÜRK G. Y., YÜCE S.

International Congress On Mathematics Statistics And Analytical Methods, İstanbul, Turkey, 2 - 03 March 2018, pp.48

X. A Method for the Involute-Evolute Offsets of Ruled Surfaces

ŞENTÜRK G. Y., YÜCE S.

International Congress On Mathematics Statistics And Analytical Methods, İstanbul, Turkey, 2 - 03 March 2018, pp.49-50

XI. The spacelike ruled surfaces with Darboux frame in E^3_1

ŞENTÜRK G. Y., YÜCE S.

- 15 th international geometry symposium, Amasya, Turkey, 3 - 06 July 2017, pp.46-47
- XII. **Properties of the timelike ruled surfaces with Darboux frame in E 3_1**
ŞENTÜRK G. Y., YÜCE S., KURUOĞLU N.
15th International Geometry Symposium, Amasya, Turkey, 3 - 06 July 2017
- XIII. **Characteristic Properties of The Ruled Surface with Darboux Frame in E 3**
ŞENTÜRK G. Y., YÜCE S., İŞINKARALAR K.
33nd Colloquium on Combinatorics, Germany, 7 - 08 November 2014
- XIV. **Bertrand Offsets of Ruled Surface with Darboux Fram**
ŞENTÜRK G. Y., YÜCE S., ÇITAK G.
13. Geometri Sempozyumu, Turkey, 27 - 30 July 2015
- XV. **Properties of Integral Invariants of the Ruled Surface with Darboux Frame in E 3**
ŞENTÜRK G. Y., YÜCE S.
2015 Joint Mathematics Meetings, Texas, United States Of America, 6 - 09 January 2015
- XVI. **Properties of Integral Invariants of The Involute Evolute Offsets of Ruled Surfaces**
ŞENTÜRK G. Y., YÜCE S., KURUOĞLU N.
12. geometri sempozyumu, Turkey, 23 - 26 June 2014
- XVII. **Properties of Integral Invariants of The Mannheim Offsets of Ruled Surfaces**
ŞENTÜRK G. Y., YÜCE S.
12. geometri sempozyumu, Turkey, 23 - 26 June 2014

Supported Projects

ŞENTÜRK G. Y., TÜBİTAK Project, Bileşenleri Dual-Genelleştirilmiş Kompleks Leonardo Sayıları Olan Dual Kuaterniyonların Araştırılması (2209A), 2022 - Continues

Şentürk G. Y., Gürses N., Project Supported by Higher Education Institutions, FBA-2020-4015, Dual-Genelleştirilmiş Kompleks Katsayılı Matrisler, 2020 - 2023

Şentürk G. Y., Gürses N., Project Supported by Higher Education Institutions, DUP-210720-GYS, Hiperbolik-Genelleştirilmiş Kompleks Katsayılı Fibonacci-Lucas Sayıları ve Kuaterniyonlar Teorisi, 2020 - 2022

Şentürk G. Y., Yüce S., Project Supported by Higher Education Institutions, FDK-2018-3320, Lorentz Düzleminde 2-Parametrelili Hareketler ve Kutup Eksen Yoğunluğu, 2018 - 2019