

Assoc. Prof. Gülsüm Yeliz SAÇLI

Personal Information

Office Phone: [+90 212 383 4369](tel:+902123834369)

Email: yeliz.saccli@yildiz.edu.tr

Web: <https://avesis.yildiz.edu.tr/ysaccli>

Address: Yıldız Teknik Üniversitesi Davutpaşa Kampüsü Fen Edebiyat Fakültesi E-Blok Matematik Bölümü 2. KAT Ofis: E2010
34220 Esenler/İstanbul

International Researcher IDs

ScholarID: Dr6LwckAAAAJ

ORCID: 0000-0002-8647-1801

Publons / Web Of Science ResearcherID: GZA-8545-2022

ScopusID: 56723924100

Yoksis Researcher ID: 28827

Education Information

Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Turkey 2013 - 2019

Postgraduate, Yıldız Technical University, Fen Edebiyat Fakültesi, Matematik, Turkey 2011 - 2013

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

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Education Management and Planning, Akademik Makale Yazımı, SAKARYA ÜNİVERSİTESİ UZAKTAN EĞİTİM ARAŞTIRMA VE UYGULAMA MERKEZİ, 2016

Education Management and Planning, Pedagojik Formasyon, YILDIZ TEKNİK ÜNİVERSİTESİ, 2012

Dissertations

Doctorate, Lorentz düzleminde 2-parametrelili hareketler ve kutup eksen yoğunluğu, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, 2019

Postgraduate, Darboux Çatlı Regle Yüzeylerin Karakteristik Özellikleri, Yıldız Teknik Üniversitesi, Matematik, Matematik, 2013

Research Areas

Mathematics, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2023 - Continues
Assistant Professor, Istanbul Gelisim University, Faculty Of Engineering And Architecture, Computer Engineering, 2019 - 2023

Assistant Professor, Istanbul Gelisim University, Faculty Of Engineering And Architecture, Computer Engineering, 2019 - 2019

Research Assistant, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2012 - 2019

Academic and Administrative Experience

Deputy Director of the Center, Istanbul Gelisim University, Faculty Of Engineering And Architecture, Computer Engineering, 2019 - 2022

Courses

Postgraduate

GEOMETRİNİN TEMEL KAVRAMLARI, Postgraduate, 2023 - 2024

UZMANLIK ALAN DERSİ (YÜKSEK LİSANS), Postgraduate, 2023 - 2024

YÜKSEK LİSANS TEZİ, Postgraduate, 2023 - 2024

İLERİ DİFERANSİYEL GEOMETRİ, Postgraduate, 2023 - 2024

Undergraduate

DİFERANSİYEL GEOMETRİ II, Undergraduate, 2023 - 2024

BİTİRME ÇALIŞMASI, Undergraduate, 2023 - 2024

ANALİTİK GEOMETRİ II, Undergraduate, 2023 - 2024

LİNEER CEBİR, Undergraduate, 2023 - 2024

DİFERANSİYEL GEOMETRİ I, Undergraduate, 2023 - 2024

Published journal articles indexed by SCI, SSCI, and AHCI

I. On Vietoris' hybrid number sequence

Gürses N., Saçlı G. Y., Yüce S.

TURKISH JOURNAL OF MATHEMATICS, vol.48, no.4, pp.658-672, 2024 (SCI-Expanded)

II. A generalized quaternionic sequence with Vietoris' number components

Şentürk G. Y.

FILOMAT, vol.37, no.28, pp.9753-9768, 2023 (SCI-Expanded)

III. Similarity Relations and Exponential of Dual-Generalized Complex Matrices

Gürses N., Şentürk G. Y.

ANALELE ŞTIINTIFICE ALE UNIVERSITATII OVIDIUS CONSTANTA, SERIA MATEMATICA, vol.31, no.3, pp.145-165, 2023 (SCI-Expanded)

IV. 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)

V. A Geometric Aspect of the Two-Parameter Planar Lorentzian Motions

Şentürk G. Y., Yüce S.

MATHEMATICAL PROBLEMS IN ENGINEERING, vol.2018, 2018 (SCI-Expanded)

VI. 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)

VII. Characteristic properties of the ruled surface with Darboux frame in E^3

Articles Published in Other Journals

- I. **Investigating the Dual Quaternion Extension of the DGC Leonardo Sequence**
Yılmaz Ç. Z., Saçlı G. Y.
HONAM MATHEMATICAL JOURNAL, vol.46, no.4, pp.677-696, 2024 (ESCI)
- II. **On 3-Parameter Generalized Quaternions with the Leonardo p-Sequence**
Saçlı G. Y.
JOURNAL OF SCIENCE AND ARTS, vol.24, no.1, pp.21-30, 2024 (ESCI)
- III. **On some identities for the DGC Leonardo sequence**
Yılmaz Ç. Z., Saçlı G. Y.
NOTES ON NUMBER THEORY AND DISCRETE MATHEMATICS, vol.30, no.2, pp.253-270, 2024 (ESCI)
- IV. **A note on hyper-dual numbers with the Leonardo-Alwyn sequence**
Saçlı G. Y., Yüce S.
Turkish Journal of Mathematics and Computer Science, vol.16, no.1, pp.154-161, 2024 (Scopus)
- V. **Dual Quaternion Theory over HGC numbers**
Saçlı G. Y., Gürses N.
JOURNAL OF DISCRETE MATHEMATICAL SCIENCES AND CRYPTOGRAPHY, vol.27, no.1, pp.117-142, 2024 (ESCI)
- VI. **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)
- VII. **Investigating Generalized Quaternions with Dual-Generalized Complex Numbers**
Gürses N., Şentürk G. Y., Yüce S.
MATHEMATICA BOHEMICA, vol.148, no.3, pp.329-348, 2023 (ESCI)
- VIII. **Matrix Theory over DGC Numbers**
GÜRSES N., ŞENTÜRK G. Y.
JOURNAL OF SCIENCE AND ARTS, vol.23, no.1, pp.209-228, 2023 (Peer-Reviewed Journal)
- IX. **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 (Peer-Reviewed Journal)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **A study on dual-generalized complex and hyperbolic-generalized complex numbers**
GÜRSES N., ŞENTÜRK G. Y., YÜCE S.
Gazi University Journal of Science, vol.34, no.1, pp.180-194, 2021 (Scopus)
- XV. **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)
- XVI. **ON RULED NON-DEGENERATE SURFACES WITH DARBOUX FRAME IN MINKOWSKI 3-SPACE**
Şentürk G. Y., Yüce S.
TWMS JOURNAL OF APPLIED AND ENGINEERING MATHEMATICS, vol.10, no.2, pp.499-511, 2020 (ESCI)
- XVII. **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)
- XVIII. **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)
- XIX. **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 (ESCI)
- XX. **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

- I. **On Extended k-order Fibonacci and Lucas Numbers via DGC Numbers**
Gürses N., Saçlı G. Y., Yüce S.
in: New Frontiers in Number Theory and Applications, Jordi Guàrdia, Nicuşor Minculete, Diana Savin, Montserrat Vela, Abdelkader Zekhnini, Editor, Springer, London/Berlin , Zug, pp.155-189, 2024
- II. **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
- III. **Bikompleks Matrisler**
ŞENTÜRK G. Y.
in: Sayılar ve Matrisler Teorisi, YÜCE SALİM, Editor, Pegem Akademi Yayıncılık, Ankara, pp.462-547, 2023
- IV. **Kompleks Sayılar ve Öklid Düzlemi**
ŞENTÜRK G. Y.
in: Sayılar ve Geometri, Salim Yüce, Editor, Pegem Akademi Yayıncılık, Ankara, pp.24-70, 2020

Papers Published in Refereed Scientific Meetings

- I. **On the Dual-Generalized Complex Leonardo-like Sequence**
Yılmaz 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 New Look on Oresme Numbers: Dual-Generalized Complex Component Extension**

ŞENTÜRK G. Y., GÜRSES N., YÜCE S.

18th International Geometry Symposium, Malatya, Turkey, 12 - 13 July 2021, pp.101-103

VIII. **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

IX. **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

X. **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, 02 March 2018, pp.48

XI. **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, 02 March 2018, pp.49-50

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

ŞENTÜRK G. Y., YÜCE S.

15th International Geometry Symposium, Amasya, Turkey, 03 July 2017, pp.46-47

XIII. **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, 03 July 2017, pp.44-45

XIV. **Bertrand Offsets of Ruled Surface with Darboux Frame**

Şentürk G. Y., Yüce S.

13. Geometry Sempozyumu, İstanbul, Turkey, 27 - 30 July 2015, pp.111

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, San Antonio, United States Of America, 10 January 2015, pp.502

XVI. **Properties of Integral Invariants of The Mannheim Offsets of Ruled Surfaces**

ŞENTÜRK G. Y., YÜCE S.

XII. Geometri Sempozyumu, Bilecik, Turkey, 23 June 2014, pp.49

Supported Projects

Yılmaz Ç. Z., Şentürk G. Y., TÜBİTAK Project, Bileşenleri Dual-Genelleştirilmiş Kompleks Leonardo Sayıları Olan Dual Kuarterniyonların Araştırılması (2209A), 2022 - 2023

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

YÜCE S., ŞENTÜRK G. Y., Project Supported by Higher Education Institutions, Lorentz Düzleminde 2-Parametrelili Hareketler ve Kutup Eksen Yoğunluğu, 2018 - 2019

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

Metrics

Publication: 50

Citation (WoS): 68

Citation (Scopus): 44

H-Index (WoS): 5

H-Index (Scopus): 5

Congress and Symposium Activities

16th International Geometry Symposium, Attendee, Manisa, Turkey, 2018

1st International Congress On Mathematics Statistics And Analytical Methods, Attendee, İstanbul, Turkey, 2018

15th International Geometry Symposium, Attendee, Amasya, Turkey, 2017

13. Geometri Sempozyumu, Attendee, İstanbul, Turkey, 2015

2015 Joint Mathematics Meetings, Attendee, Texas, United States Of America, 2015

33nd Colloquium on Combinatorics, Attendee, Ilmenau, Germany, 2014

XII. Geometri Sempozyumu, Attendee, Bilecik, Turkey, 2014

Scholarships

2211-Yurt içi Doktora Bursu, TÜBİTAK, 2013 - Continues

Awards

ŞENTÜRK G. Y., Yayın Teşvik Ödülü, YTÜ, October 2018

ŞENTÜRK G. Y., TÜBİTAK 2017 Yayın Teşvik Ödülü, TÜBİTAK, April 2018

ŞENTÜRK G. Y., Akademik teşvik, YÖK, January 2018

ŞENTÜRK G. Y., Akademik Teşvik, YÖK, January 2016

ŞENTÜRK G. Y., TÜBİTAK 2015 Yayın Teşvik Ödülü, TÜBİTAK, June 2015

ŞENTÜRK G. Y., Yayın Teşvik Ödülü, YTÜ, March 2015