Assoc. Prof. TÜLAY ERİŞİR

Personal Information

Office Phone: +90 446 224 3032 Extension: 40098

Email: tulay.erisir@erzincan.edu.tr

Web: https://avesis.ebyu.edu.tr/tulay.erisir

International Researcher IDs

ORCID: 0000-0001-6444-1460

Publons / Web Of Science ResearcherID: A-5609-2017

Yoksis Researcher ID: 186994

Education Information

Doctorate, Sakarya University, Institute Of Science, Geometri, Turkey 2011 - 2016

Postgraduate, Sakarya University, Institute Of Science, Geometri, Turkey 2009 - 2011

Undergraduate, Ataturk University, Erzincan Fen Edebiyat Fakültesi, Matematik, Turkey 2005 - 2009

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Genelleştirilmiş Kompleks Düzlemde Steiner Formülü ve Holditch Tipi Teoremler, Sakarya Üniversitesi, Fen Bilimleri Enstitüsü, Geometri, 2016

Postgraduate, Kuaterniyonik İnvolüt-Evolüt Eğri Çiftleri, Sakarya Üniversitesi, Fen Bilimleri Enstitüsü, Geometri, 2011

Research Areas

Mathematics, Differential Geometry, Geometry, Natural Sciences

Academic Titles / Tasks

Associate Professor, Erzincan Binali Yildirim University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2022 - Continues

Assistant Professor, Erzincan Binali Yildirim University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2017 - 2022

Assistant Professor, Erzincan Binali Yildirim University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2017 - 2018

Research Assistant PhD, Erzincan Binali Yildirim University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2016 - 2017

Research Assistant, Sakarya University, Fen Edebiyat Fakültesi, Matematik, 2012 - 2016

Research Assistant, Erzincan Binali Yildirim University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2010 - 2012

Academic and Administrative Experience

Deputy Head of Department, Erzincan Binali Yildirim University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2020 - Continues

Advising Theses

Erişir T., Öklid uzayında ardıl eğrilerin spinor gösterimi, Postgraduate, H.KÖSE(Student), 2021

Erişir T., Öklid uzayında Mannheim eğrileri ve spinorlar, Postgraduate, Z.İSABEYOĞLU(Student), 2020

Erişir T., Reel kuaterniyonların Hamilton matrislerinin spinorlar ile ifadesi, Postgraduate, E.YILDIRIM(Student), 2020

Erişir T., Üç boyutlu öklid uzayında involüt-evolüt eğrilerinin spinor gösterimi, Postgraduate, N.CANSU(Student), 2019

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Spinor Equations of Smarandache Curves in E3**
İsabeyoğlu Z., Erişir T., Azak A. Z.
MATHEMATICS, vol.12, no.24, pp.1-18, 2024 (SCI-Expanded)

II. **Spinors Corresponding to Modified Orthogonal Frames in Euclidean 3-Space**
Azak A. Z., Erişir T.
THEORETICAL AND MATHEMATICAL PHYSICS, vol.219, no.2, pp.712-721, 2024 (SCI-Expanded)

III. **Horadam Spinors**
Erişir T.
Journal of Mathematics, vol.2024, pp.1-9, 2024 (SCI-Expanded)

IV. **On the Dual Quaternion Geometry of Screw Motions**
Erişir T., Mumcu G., Kızıltuğ S., Yaylı Y.
ANALELE STIINTIFICE ALE UNIVERSITATII OVIDIUS CONSTANTA, SERIA MATEMATICA, vol.31, no.3, pp.1-20, 2023 (SCI-Expanded)

V. **C∗-partner curves with modified adapted frame and their applications**
Kızıltuğ S., Erişir T., Mumcu G., Yaylı Y.
AIMS MATHEMATICS, vol.8, no.1, pp.1345-1359, 2023 (SCI-Expanded)

VI. **On Tubular Surfaces With Modified Orthogonal Frame In Galilean Space**
Kızıltuğ S., Çakmak A., Erişir T., Mumcu G.
THERMAL SCIENCE, vol.26, no.2, pp.571-581, 2022 (SCI-Expanded)

VII. **On the quaternionic osculating direction curves**
Kızıltuğ S., Erişir T., Mumcu G.
International Journal Of Geometric Methods In Modern Physics, vol.3, pp.1-16, 2022 (SCI-Expanded)

VIII. **A New Construction of Holditch Theorem for Homothetic Motions in Cp**
Erişir T.
Advances in Mathematical Physics, pp.1-9, 2021 (SCI-Expanded)

IX. **On spinor construction of Bertrand curves**
Erişir T.
AIMS MATHEMATICS, vol.6, no.4, pp.3583-3591, 2021 (SCI-Expanded)

X. **On Fibonacci Spinors**
Erişir T., Güngör M. A.
INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, vol.17, no.4, pp.1-13, 2020 (SCI-Expanded)

XI. **The Hyperbolic Spinor Representation of Transformations in R-1(3) by Means of Split Quaternions**
Tarakcioglu M., ERİŞİR T., Gungor M. A., Tosun M.
ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.28, no.1, 2018 (SCI-Expanded)

XII. **The Holditch-Type Theorem for the Polar Moment of Inertia of the Orbit Curve in the Generalized Complex Plane**

ERİŞİR T., GÜNGÖR M. A., Tosun M., TOSUN M.

ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.26, no.4, pp.1179-1193, 2016 (SCI-Expanded)

XIII. **A New Generalization of the Steiner Formula and the Holditch Theorem**

ERİŞİR T., GÜNGÖR M. A., TOSUN M.

ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.26, no.1, pp.97-113, 2016 (SCI-Expanded)

XIV. **Geometry of the Hyperbolic Spinors Corresponding to Alternative Frame**

ERİŞİR T., GÜNGÖR M. A., TOSUN M.

ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.25, no.4, pp.799-810, 2015 (SCI-Expanded)

Articles Published in Other Journals

I. **On New Pell Spinor Sequences**

Erişir T., Mumcu G., Güngör M. A.

Mathematical Sciences and Applications E-Notes, vol.12, no.4, pp.155-168, 2024 (Peer-Reviewed Journal)

II. **On New Spinor Sequences of Jacobsthal and Jacobsthal-Lucas Quaternions**

Erişir T., Güngör M. A.

Adıyaman Üniversitesi Fen Bilimleri Dergisi, vol.14, no.1, pp.17-38, 2024 (Peer-Reviewed Journal)

III. **Spinor representation of directional q -frame**

Erişir T., Eren K.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.41, no.5, pp.1013-1018, 2023 (ESCI)

IV. **On the Fundamental Spinor Matrices of Real Quaternions**

Erişir T., Yıldırım E.

WSEAS TRANSACTIONS ON MATHEMATICS, vol.22, pp.854-866, 2023 (Scopus)

V. **The Spinor Expressions of Mannheim Curves in Euclidean 3-Space**

Erişir T., İsabeyoğlu Z.

INTERNATIONAL ELECTRONIC JOURNAL OF GEOMETRY, vol.16, no.1, pp.111-121, 2023 (ESCI)

VI. **ON GENERALIZED KINEMATICS WITH THE POLAR MOMENT OF INERTIA FOR THE HOMOTHETIC MOTIONS IN Cp**

Erişir T., Güngör M. A.

Asia Pacific Journal of Mathematics, vol.10, pp.1-10, 2023 (Peer-Reviewed Journal)

VII. **A Generalized Version of Holditch Theorem under Homothetic Motions in Cp**

Erişir T., Güngör M. A.

Asia Mathematika, vol.6, no.3, pp.45-54, 2022 (Peer-Reviewed Journal)

VIII. **Spinor Representation of Directional q-Frame**

Erişir T., Eren K.

Sigma Journal of Engineering and Natural Sciences, vol.2022, pp.1-10, 2022 (ESCI)

IX. **Spinor Equations of Successor Curves**

ERİŞİR T., KÖSE ÖZTAŞ H.

Universal Journal of Mathematics and Applications, vol.5, no.1, pp.32-41, 2022 (Scopus)

X. **ON KINEMATICS FOR THE PMI DURING THE HOMOTHETIC MOTIONS IN Cp**

Erişir T.

Asia Pacific Journal of Mathematics, vol.9, no.2, pp.1-13, 2022 (Scopus)

XI. **Spinor Representations of Involute Evolute Curves in E^3**

Erişir T., Kardağ N. C.

Fundamental Journal of Mathematics and Applications, vol.2, no.2, pp.148-155, 2019 (Peer-Reviewed Journal)

XII. **ON THE CONSTRUCTION OF GENERALIZED BOBILLIER FORMULA**

ERİŞİR T., Güngör M. A., Ersoy S.

COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.68, no.1, pp.111-124, 2019 (ESCI)

XIII. **Holditch-Type Theorem for Non-Linear Points in Generalized Complex Plane Cp**

ERİŞİR T., Güngör M. A.

Universal Journal of Mathematics and Applications, vol.1, no.4, pp.239-243, 2018 (Peer-Reviewed Journal)

XIV. **The Cauchy-Length Formula and Holditch Theorem in the Generalized Complex Plane C-p**

ERİŞİR T., Gungor M. A.

INTERNATIONAL ELECTRONIC JOURNAL OF GEOMETRY, vol.11, no.2, pp.111-119, 2018 (ESCI)

XV. **On the Quaternionic Curves in the Semi-Euclidean Space E_4_2**

ERİŞİR T., GÜNGÖR M. A.

caspian journal of mathematical sciences, 2017 (Peer-Reviewed Journal)

XVI. **On dual Lorentzian homothetic exponential motions with one parameter**

Güngör M. A., Erişir T., Çelik M.

Selcuk Journal of Applied Mathematics, 2016 (Peer-Reviewed Journal)

XVII. **Hyperbolic Spinor Darboux Equations of Spacelike Curves in Minkowski 3 Space**

YAKUP B., ERİŞİR T., GÜNGÖR M. A.

Journal of the Chungcheong Mathemarical Society, vol.28, no.4, pp.525-535, 2015 (Peer-Reviewed Journal)

XVIII. **A CONSTRUCTION OF HYPERBOLIC SPINORS ACCORDING TO FRENET FRAME IN MINKOWSKI SPACE**

KETENCİ Z., ERİŞİR T., GÜNGÖR M. A.

JOURNAL OF DYNAMICAL SYSTEMS AND GEOMETRIC THEORIES, vol.13, no.2, pp.179-193, 2015 (ESCI)

XIX. **On the Fibonacci and Lucas Curves**

AKYİĞİT M., ERİŞİR T., TOSUN M.

New Trends and Mathematical Sciences, vol.3, pp.1-10, 2015 (Peer-Reviewed Journal)

XX. **SOME CHARACTERIZATIONS OF QUATERNIONIC RECTIFYING CURVES IN THE SEMI EUCLIDEAN SPACE**

ERİŞİR T., GÜNGÖR M. A.

HONAM MATHEMATICAL JOURNAL, vol.36, no.1, pp.67-83, 2014 (ESCI)

XXI. **ON THE QUATERNIONIC CURVES ACCORDING TO PARALLEL TRANSPORT FRAME**

ERİŞİR T., hatice p., GÜNGÖR M. A.

TWMS J. Pure Appl. Math., vol.4, no.2, pp.194-203, 2013 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **A Study on the Geometry of Dual Quaternions**

Erişir T., Mumcu G., Kızıltuğ S., Yaylı Y.

11thINTERNATIONALEURASIANCONFERENCE ONMATHEMATICALSCIENCESAND APPLICATIONS, İstanbul, Turkey, 29 August - 01 September 2021, pp.184

II. **A New Approach Tubular Surface with a new frame in G3**

Mumcu G., Çakmak A., Erişir T., Kızıltuğ S.

1st INTERNATIONAL SYMPOSIUM ON CURRENT DEVELOPMENTS IN FUNDAMENTAL AND APPLIED MATHEMATICS SCIENCES, Erzurum, Turkey, 23 - 25 May 2022, pp.167

III. **Öklid Uzayında Mannheim Eğrileri ve Spinorlar**

ERİŞİR T., İSABEYOĞLU Z.

International Mardin Artuklu Scientific Researches Conference-V, Mardin, Turkey, 15 - 16 January 2021, pp.100-101

IV. **Öklid Uzayında Successor Eğrileri ve Spinorlar**

ERİŞİR T., KÖSE ÖZTAŞ H.

International Mardin Artuklu Scientific Researches Conference-V, Mardin, Turkey, 15 - 16 January 2021, pp.98-99

V. **Hamilton Matrices of Real Quaternions and Spinors**

ERİŞİR T., YILDIRIM E.

International Conference on Mathematics and its Applications in Science and Engineering (ICMASE-2020), Ankara, Turkey, 9 - 10 July 2020, pp.169

VI. **Spinor Formulation of Bertrand Curves in E3**

Erişir T.

8th International Eurasian Conference on Mathematical Sciences and Applications„ Baku, Azerbaijan, 27 - 30 August 2019, pp.1-10

VII. **Spinor Formulation of Involute-Evolute Curves**

Erişir T., Kardağ N. C.

17 th International Geemetry Symposium, Erzincan, Turkey, 19 - 22 June 2019, pp.1-10

VIII. **Hiperbolik Spinorlar Üzerine**

ERİŞİR T., GÜNGÖR M. A.

31. Ulusal Matematik Sempozyumu, Erzincan, Turkey, 12 September 2018, pp.64

IX. **Spinor Representations of Fibonacci Quaternions**

Erişir T., Güngör M. A.

7th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2018)„ Kyyiv, Ukraine, 28 - 31 August 2018, pp.1-10

X. **Spinor Representation of Fibonacci Quaternions**

ERİŞİR T., GÜNGÖR M. A.

7nd International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2018), Kyiv, Ukraine, 28 - 31 August 2018, pp.212

XI. **On Fibonacci Spinors**

Erişir T., Güngör M. A.

16th International Geometry Symposium„ Manisa, Turkey, 4 - 07 July 2018, pp.1-10

XII. **On the Hyperbolic Spinors and Split Quaternions**

Erişir T., Güngör M. A.

6th International Eurasian Conference on Mathematical Sciences and Applications, Budapest, Hungary, 15 - 18 August 2017

XIII. **On the Spinors, Quaternions and Rotations**

Erişir T., Güngör M. A.

15th International Geometry Symposium, Amasya, Turkey, 3 - 06 July 2017

XIV. **On the Study of the Holditch Type Theorem for the Non Linear Three Points in p**

ERİŞİR T., GÜNGÖR M. A.

5THINTERNATIONALEURASIAN CONFERENCEONMATHEMATICAL SCIENCESANDAPPLICATIONS, Belgrade, Serbia And Montenegro, 16 - 19 August 2016

XV. **The Generalized Holditch-Type Theorem for the Homothetic Motion in Cp**

ERİŞİR T., GÜNGÖR M. A., AKYİĞİT M.

5th International Eurasian Conference on Mathematical Sciences and Applications, Belgrade, Serbia And Montenegro, 16 - 19 August 2016, pp.235

XVI. **The Cauchy-Length Formula and the Holditch Theorem for the Homothetic Motion in Cp**

ERİŞİR T., GÜNGÖR M. A.

5th International Eurasian Conference on Mathematical Sciences and Applications, Belgrade, Serbia And Montenegro, 16 - 19 August 2016, pp.233

XVII. **On the Kinematics of the Hyperbolic Spinors and Split Quaternions**

tarakçıoğlu m., ERİŞİR T., GÜNGÖR M. A., TOSUN M.

14th International Geometry Symposium, Denizli, Turkey, 25 - 28 May 2016

XVIII. **On the Study of the Holditch Theorem for the Non Linear Three Points in Cp**

ERİŞİR T., GÜNGÖR M. A.

3 rd INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN PURE AND APPLIED MATHEMATICS, Muğla, Turkey, 19 - 23 May 2016

XIX. **Holditch-Type Theorem for Homothetic Motion in the Generalized Complex Plane Cp**

ERİŞİR T., GÜNGÖR M. A., TOSUN M.

28. Ulusal Matematik Sempozyumu, Antalya, Turkey, 7 - 09 September 2015, pp.145

XX. **On the Construction of Generalized Bobillier Formula**

ERİŞİR T., GÜNGÖR M. A., ERSOY S.

4th International Eurasian Conference on Mathematical Sciences and Applications, atina, Greece, 31 August - 03 September 2015, pp.322-323

XXI. **The Steiner Formula and the Holditch Theorem for Homothetic Motions in the Generalized Complex Plane**
ERİŞİR T., GÜNGÖR M. A., TOSUN M.
4th International Eurasian Conference on Mathematical Sciences and Applications, atina, Greece, 31 August - 03 September 2015, pp.210-211

XXII. **A New Generalization of the Steiner Formula and the Holditch Theorem**
ERİŞİR T., GÜNGÖR M. A., TOSUN M.
4th International Eurasian Conference on Mathematical Sciences and Applications, atina, Greece, 31 August - 03 September 2015, pp.321-322

XXIII. **A Generalized Method for Centres of Trajectories in Kinematics**
ERİŞİR T., GÜNGÖR M. A., TOSUN M.
4th INTERNATIONAL EURASIAN CONFERENCEONMATHEMATICAL SCIENCES ANDAPPLICATIONS, atina, Greece, 31 August - 03 September 2015, pp.320-321

XXIV. **Genelleştirilmiş Kompleks Düzlemde Holditch-Tipi Teorem**
ERİŞİR T., GÜNGÖR M. A., TOSUN M.
XIII. Ulusal Geometri Sempozyumu, İstanbul, Turkey, 27 - 30 July 2015, pp.22

XXV. **The Hyperbolic spinors Corresponding to Alternative Frame in Minkowski Space**
ERİŞİR T., GÜNGÖR M. A.
3rd International Eurasian Conference on Mathematical Sciences and Applications, Vienna, Austria, 25 - 28 August 2014, pp.346

XXVI. **Spinor Darboux Equations of Curves in Minkowski Space**
BALCI Y., ERİŞİR T., GÜNGÖR M. A.
XII. Ulusal Geometri Sempozyumu, Bilecik, Turkey, 23 - 26 June 2014, pp.115

XXVII. **Spinor equations of curves in Minkowski space**
ERİŞİR T., GÜNGÖR M. A.
V Congress of the Turkıc World Mathematıcıans, Issık, Kyrgyzstan, 5 - 07 June 2014, pp.41

XXVIII. **Spinor Representation of Sabban Frame on S2**
SOYFİDAN T., GÜNGÖR M. A., TOSUN M.
2st International Eurasian Conference on Mathematical Sciences and Applications, Sarajevo, Bosnia And Herzegovina, 26 - 29 August 2013, pp.296

XXIX. **On the Fibonacci and Lucas Curves**
AKYİĞİT M., SOYFİDAN T., TOSUN M.
XI. Geometri Sempozyumu, Ordu, Turkey, 1 - 05 July 2013, pp.110

XXX. **On the Geometric Interpretation of Fibonacci and Lucas Curves**
AKYİĞİT M., SOYFİDAN T., TOSUN M.
XI. Ulusal Geometri Sempozyumu, Ordu, Turkey, 1 - 05 July 2013, pp.110

XXXI. **On the Quaternionic Curves According to Parallel Transport Frame**
PARLATICI H., SOYFİDAN T., GÜNGÖR M. A.
1st International Eurasian Conference on Mathematical Sciences and Applications, Pristina, Kosova, 3 - 07 September 2012, pp.214

XXXII. **On the Quaternionic Rectifying Curves in Semi-Euclidean Space E_2^4**
SOYFİDAN T., GÜNGÖR M. A.
1st International Eurasian Conference on Mathematical Sciences and Applications, Pristina, Kosova, 3 - 07 September 2012, pp.215

XXXIII. **On the Quaternionic Involute Evolute Curves in the Semi Euclidean Space E4 2**
ERİŞİR T., GÜNGÖR M. A.
X. GEOMETRİ SEMPOZYUMU, Balıkesir, Turkey, 13 - 16 June 2012

XXXIV. **On the quaternionic involute-evolute curves in the semi-Euclidean space**
SOYFİDAN T., GÜNGÖR M. A.

X. Ulusal Geometri Sempozyumu, Balıkesir, Turkey, 13 - 16 June 2012, pp.82

XXXV. **ON THE QUATERNJONIC INVOLUTE EVOLUTE CURVE COUPLES**
ERİŞİR T., GÜNGÖR M. A.
IX. Geometri Sempozyumu, Samsun, Turkey, 7 - 10 June 2011

XXXVI. **Kuaterniyonik İnvolüt-Evolüt Eğri Çiftleri Üzerine**
SOYFİDAN T., GÜNGÖR M. A.
IX. Ulusal Geometri Sempozyumu, Samsun, Turkey, 7 - 10 June 2011, pp.70

Supported Projects

ERİŞİR T., ÖZKAN E., ÖZDİN T., KIZILTUĞ S., Project Supported by Higher Education Institutions, 17. Uluslararası Geometri Sempozyumu, 2019 - 2020

ÖZKAN E., KIZILTUĞ S., GÜNDÜZ B., ERİŞİR T., ÖZDİN T., Taştan M., Project Supported by Higher Education Institutions, 31. Ulusal Matematik Sempozyumu, 2018 - 2018

ERİŞİR T., Project Supported by Other Official Institutions, Bir Parametreli Düzlemsel p-Hareketi İçin Genelleştirilmiş Holditch Teoremi, 2014 - 2016

Scientific Refereeing

Honam Mathematical Journal, Other Indexed Journal, April 2014
Honam Mathematical Journal, Other Indexed Journal, December 2013

Metrics

Publication: 71
Citation (WoS): 12
Citation (Scopus): 14
H-Index (WoS): 2
H-Index (Scopus): 2