

# Prof. SEZAI KIZILTUĞ

## Personal Information

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**Address:** Erzincan Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü

## International Researcher IDs

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ScopusID: 55618183100

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## Education Information

Doctorate, Ataturk University, Fen Bilimleri, Matematik, Turkey 2010 - 2013

Postgraduate, Gazi University, Fen Bilimleri, Matematik, Turkey 2008 - 2009

Undergraduate, Balikesir University, Fen Edebiyat Fakültesi, Matematik, Turkey 2000 - 2005

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, Paralel Yüzeyler ve Eğriler, Atatürk Üniversitesi, Fen Bilimleri, Matematik, 2013

Postgraduate, Hiperbolik ve Küresel Uzayda Dörtüzlülerin Ayrıt ve Gram Matrislerinin Karakteristik Değerlerinin Geometrik Yorumu, Gazi Üniversitesi, Fen Bilimleri, Matematik, 2009

## Research Areas

Mathematics, Geometry, Natural Sciences

## Academic Titles / Tasks

Professor, Erzincan Binali Yıldırım University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2023 - Continues

Associate Professor, Erzincan Binali Yıldırım University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2017 - Continues

Assistant Professor, Erzincan Binali Yıldırım University, Fen-Edebiyat, Matematik, 2013 - Continues

## Academic and Administrative Experience

Head of Department, Erzincan Binali Yıldırım University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2023 - Continues

Ethics Committee Member, Erzincan Binali Yıldırım University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2021 - Continues

Erzincan Binali Yıldırım Üniversitesi, Fen Edebiyat Fakültesi, 2019 - Continues

Head of Department, Erzincan Binali Yıldırım University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2013 - Continues

Deputy Head of Department, Erzincan Binali Yıldırım University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2020 - 2023

Enstitü Yönetim Kurulu Üyesi, Erzincan Binali Yıldırım University, Fen Bilimleri Enstitüsü, Matematik, 2019 - 2020

## Advising Theses

Kızıltuğ S., Geliştirilmiş Alternatif Ortogonal Çatıya Göre Bazı Özel Eğrilerin Karakterizasyonları, Doctorate, G.MUMCU(Student), 2023

KIZILTUĞ S., Öklidyen 3-uzayda rektifiyan-doğrultu eğriler, Postgraduate, G.MUMCU(Student), 2018

KIZILTUĞ S., ÜÇ BOYUTLU LİE GRUPLARDA AW(k) TİPİ BERTRAND EĞRİLERİ, Postgraduate, S.ÇAKAL(Student), 2018

## Jury Memberships

Doctoral Examination, Doctoral Examination, Erzincan Binali Yıldırım Üniversitesi, January, 2021

Post Graduate, Post Graduate, Erzincan Binali Yıldırım Üniversitesi, August, 2020

Post Graduate, Post Graduate, Erzincan Binali Yıldırım Üniversitesi, February, 2019

Post Graduate, Post Graduate, Erzincan Binali Yıldırım Üniversitesi, July, 2018

Competition, Tübitak Lise Öğrencileri Araştırma Projeleri Jüri Üyeligi, Atatürk Üniversitesi, January, 2018

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **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)
- III. **Notes on Curves at a Constant Distance from the Edge of Regression on a Curve in Galilean 3-Space G3**  
Çakmak A., KIZILTUĞ S., Mumcu G.  
CMES - Computer Modeling in Engineering and Sciences, vol.135, no.3, pp.2731-2742, 2023 (SCI-Expanded)
- IV. **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)
- V. **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)
- VI. **NORMAL DIRECTION CURVES AND APPLICATIONS**  
Kızıltuğ S., Önder M., Yaylı Y.  
Miskolc Mathematical Notes, vol.22, pp.363-374, 2021 (SCI-Expanded)
- VII. **TRANSLATION SURFACES IN THE 3-DIMENSIONAL GALILEAN SPACE SATISFYING  $\Delta x(i)(II) = \lambda x(i)$**   
Çakmak A., Karacan M. K., KIZILTUĞ S., Yoon D.  
BULLETİN OF THE KOREAN MATHEMATICAL SOCIETY, vol.02, pp.1241-1254, 2017 (SCI-Expanded)
- VIII. **On the quaternionic Mannheim curves of Aw(k)-type in Euclidean space E-3**  
Kızıltuğ S., Yaylı Y.

KUWAIT JOURNAL OF SCIENCE AND ENGINEERING, vol.42, pp.128-140, 2015 (SCI-Expanded)

**IX. ASSOCIATED CURVES OF FRENET CURVES IN THREE DIMENSIONAL COMPACT LIE GROUP**

KIZILTUĞ S., Önder M.

MISKOLC MATHEMATICAL NOTES, vol.16, no.2, pp.953-964, 2015 (SCI-Expanded)

**X. Bertrand Curves of AW(??)-Type in the Equiform Geometry of the Galilean Space**

Kızıltuğ S., Yaylı Y.

ABSTRACT AND APPLIED ANALYSIS, pp.6, 2014 (SCI-Expanded)

## Articles Published in Other Journals

**I. Surfaces of Revolution of Type 1 in Galilean 3-Space.**

Kızıltuğ S., Karacan M. K., Es H., Çakmak A.

KYUNGPOOK MATHEMATICAL JOURNAL, vol.60, pp.585-597, 2020 (ESCI)

**II. Surfaces Generated by Translation Surfaces of Type 1 in E**

Kızıltuğ S., Es H., Karacan M. K., Çakmak A.

Iranian Journal of Mathematical Sciences and informatics, vol.3, pp.25-39, 2020 (ESCI)

**III. The Directional Curves of Frenet Spacelike and Timelike Curves in  $E_{13}$**

Yurttaçıkılmaz S., Kızıltuğ S., Çakmak A.

Journal of Advanced Mathematics and Mathematics Education, vol.2, no.3, pp.12-24, 2019 (Peer-Reviewed Journal)

**IV. On the quaternionic Bertrand curves of AW k -type in Euclidean space  $E^3$**

Kızıltuğ S., Mumcu G.

Journal of Advanced Mathematics and Mathematics Education, vol.2, no.3, pp.1-11, 2019 (Peer-Reviewed Journal)

**V. The Directional Curves of Spacelike and Timelike Frenet Curves in  $E_1$**

Kızıltuğ S., Çakmak A., Yurttaçıkılmaz S.

Journal of Advanced Mathematics and Mathematics Education, vol.2, no.3, pp.1-12, 2019 (Peer-Reviewed Journal)

**VI. Dual Surfaces Defined by  $z=f(u)g(v)$  in Simply Isotropic 3-Space  $I_{31}$**

ÇAKMAK A., KARACAN M. K., KIZILTUĞ S.

Communications of the Korean Mathematical Society, vol.34, no.1, pp.267-277, 2019 (ESCI)

**VII. Classification of Translation Surfaces of Type 1 in Semi-Isotropic Space**

Karacan M. K., Çakmak A., YÜKSEL N., KIZILTUĞ S.

JOURNAL OF MATHEMATICAL EXTENSION, vol.13, no.2, pp.137-156, 2019 (ESCI)

**VIII. TUBULAR SURFACES WITH DARBOUX FRAME IN GALILEAN 3-SPACE**

KIZILTUĞ S., Dede M., EKİCİ C.

FACTA UNIVERSITATIS-SERIES MATHEMATICS AND INFORMATICS, vol.34, no.2, pp.253-260, 2019 (ESCI)

**IX. SPHERICAL INDICATRICES OF A BERTRAND CURVE IN THREE DIMENSIONAL LIE GROUPS**

Çakmak A., KIZILTUĞ S.

COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.68, no.2, pp.1930-1938, 2019 (ESCI)

**X. Bertrand curves of AW (k)-type in three dimensional Lie groups**

KIZILTUĞ S., Çakal S.

Journal of Mathematical and Computational Science, vol.7, pp.806-816, 2017 (Scopus)

**XI. HELICOIDAL SURFACES IN THE THREE DIMENSIONAL SIMPLY ISOTROPIC SPACE  $I_3(1)$**

Karacan M. K., Yoon D., KIZILTUĞ S.

TAMKANG JOURNAL OF MATHEMATICS, vol.48, no.2, pp.123-134, 2017 (ESCI)

**XII. Bertrand and Mannheim Partner D-curves on Parallel Surfaces**

KIZILTUĞ S., Önder M., Tarakçı Ö.

BOLETIM SOCIEDADE PARANAENSE DE MATEMATICA, vol.35, no.2, pp.159-169, 2017 (ESCI)

**XIII. On the semi-real quaternionic bertrand curves of AW(k)-type in  $E_{31}$**

Çakmak A., KIZILTUĞ S., Tarakçı Ö., Yurttaçıkılmaz S.

Bulletin of the Transilvania University of Brasov, Series III: Mathematics, Informatics, Physics, pp.15-26, 2015

(Scopus)

- XIV. **ON CHARACTERIZATION OF INEXTENSIBLE FLOWS OF CURVES ACCORDING TO TYPE-2 BISHOP FRAME in E**  
KIZILTUĞ S.  
MATHEMATICAL AND COMPUTATIONAL APPLICATIONS, pp.69-77, 2014 (Peer-Reviewed Journal)
- XV. **On Characterization Inextensible Flows of Curves According to Type 2 Bishop frame in E**  
KIZILTUĞ S.  
Mathematical and Computational Applications, 2014 (Peer-Reviewed Journal)
- XVI. **INELASTIC FLOWS OF CURVES IN 4D GALILEAN SPACE**  
KIZILTUĞ S.  
Journal of Mathematical and Computational Science, pp.1520-1532, 2013 (Peer-Reviewed Journal)
- XVII. **ON PARALLEL SURFACES OF WEINGARTEN TUBULAR SURFACE 'IN EUCLIDEAN 3-SPACE**  
KIZILTUĞ S., Tarakçı Ö.  
Global Journal of Advanced Research on Classical and Modern Geometries, pp.30-35, 2013 (Peer-Reviewed Journal)
- XVIII. **Timelike Tubes Around A Spacelike Curve With Darboux Frame Of Weingarten Types in Minkowski 3-Space**  
KIZILTUĞ S., Kaya S., Çakmak A.  
International Journal of Physical and Mathematical Sciences, pp.10-20, 2013 (Peer-Reviewed Journal)
- XIX. **Spacelike Curves on Spacelike Parallel Surfaces in Minkowski 3-space  $E^3_1$**   
KIZILTUĞ S., Yaylı Y.  
International Journal of Mathematics & Computation, pp.10, 2013 (Peer-Reviewed Journal)
- XX. **Developable Ruled Surfaces with Darboux Frame in Minkowski 3-Space**  
KIZILTUĞ S., Çakmak A.  
Life Science Journal, pp.1906-1914, 2013 (Peer-Reviewed Journal)
- XXI. **Tube Surfaces with Type-2 Bishop Frame of Weingarten Types in  $E^3$**   
KIZILTUĞ S., Kaya S., Tarakçı Ö.  
INTERNATIONAL JOURNAL OF MATHEMATICAL ANALYSIS, pp.9-18, 2013 (Peer-Reviewed Journal)
- XXII. **On the curves lying on parallel surfaces in the Euclidean 3-space  $E^3$**   
KIZILTUĞ S., Tarakçı Ö., Yaylı Y.  
Journal of Advanced Research in Dynamical and Control Systems, pp.26-35, 2013 (Scopus)
- XXIII. **THE SLANT HELICES ACCORDING TO TYPE-2 BISHOP FRAME IN EUCLIDEAN 3-SPACE**  
KIZILTUĞ S., Kaya S., Tarakçı Ö.  
International Journal of Pure and Applied Mathematics, pp.211-222, 2013 (Peer-Reviewed Journal)
- XXIV. **Timelike tubes with Darboux frame in Minkowski 3-space**  
KIZILTUĞ S., Yaylı Y.  
INTERNATIONAL JOURNAL OF PHYSICAL SCIENCES, pp.31-36, 2013 (Peer-Reviewed Journal)
- XXV. **Timelike Curves on Timelike Parallel Surfaces in Minkowski 3-space  $E^3$**   
KIZILTUĞ S., Yaylı Y.  
Mathematica Aeterna, pp.689-700, 2012 (Peer-Reviewed Journal)
- XXVI. **BERTRAND AND MANNHEIM PARTNER D-CURVES ON PARALLEL SURFACES IN MINKOWSKI 3-SPACE**  
Önder M., KIZILTUĞ S.  
INTERNATIONAL JOURNAL OF GEOMETRY, pp.34-45, 2012 (Peer-Reviewed Journal)
- XXVII. **Parallel Surfaces of Weingarten Type in Minkowski 3-Space**  
KIZILTUĞ S., Abdelaziz H., Saad K.  
International Mathematical Forum, pp.2293-2302, 2012 (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.

11th INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, İstanbul, Turkey, 29 August - 01 September 2021, pp.184

- II. **A New Approach Tubular Surface with a new frame in  $G_3$**   
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. **On Tubular Surfaces with Modified Frame in 3-Dimensional Galilean Space**  
Kızıltuğ S., Çakmak A., Mumcu G.  
18th International Geometry Symposium in Honour of Prof. Dr. Sadık KELEŞ, Malatya, Turkey, 12 - 13 July 2021, pp.152
- IV. **Some Results on Rectifying Direction Curves in  $E_3$**   
Kızıltuğ S., Çakmak A., Mumcu G.  
17th International Geometry Symposium, Erzincan, Turkey, 19 - 21 June 2019, pp.108
- V. **Osculating Directional Curves of Non-Lightlike Curves in Minkowski 3-Space**  
ÇAKMAK A., KIZILTUĞ S., YURTTANÇIKMAZ S.  
International Conference on Stem and Educational Sciences, 3 - 05 May 2018
- VI. **Öklidyen Uzayda Rektifiyan-Doğrultu Eğriler**  
Mumcu G., Kızıltuğ S.  
31. Ulusal Matematik Sempozyumu, Erzincan, Turkey, 12 - 15 September 2018, pp.59
- VII. **New Type Direction Curves in  $E_3$**   
ÇAKMAK A., KIZILTUĞ S., MUMCU G.  
16th International Geometry Symposium, Manisa, Turkey, 4 - 07 July 2018
- VIII. **Osculating Direction Curves and Applications**  
KIZILTUĞ S., Mumcu G.  
16. International Geometry Symposium, Manisa, Turkey, 4 - 07 July 2018, pp.25-35
- IX. **RECTIFYING-DIRECTION CURVES IN EUCLIDEAN 3-SPACE**  
KIZILTUĞ S., Çakmak A.  
INTERNATIONAL CONFERENCE ON STEM AND EDUCATIONAL SCIENCES, Muş, Turkey, 3 - 05 May 2018, pp.167
- X. **New type Direction curves in Euclidean 3 -space**  
KIZILTUĞ S., Çakmak A., Mumcu G.  
15. International Geometry Symposium, Amasya, Turkey, 3 - 06 July 2017, pp.150
- XI. **Tube Surfaces with Type-2 Bishop Frame in Euclidean 3-space**  
Çakmak A., KIZILTUĞ S.  
14th International Geometry Symposium, Denizli, Turkey, 25 - 28 May 2016, pp.115-123
- XII. **Spherical Indicatrices of a Bertrand Curve in Three Dimensional Lie Groups**  
KIZILTUĞ S., KARACAN M. K.  
International Conference on Advancements in Mathematical Sciences (AMS), 5 - 07 November 2015
- XIII. **Normal Direction Curves in Euclidean 3- space**  
KIZILTUĞ S.  
13. International Geometry Symposium, İstanbul, Turkey, 27 - 30 July 2015, pp.145
- XIV. **Some special Parallel like-surfaces**  
Çakmak A., KIZILTUĞ S., Tarakcı Ö.  
3rd International Eurasian Conference on Mathematical Sciences and Applications, Viyana, Austria, 25 - 28 August 2014, pp.290
- XV. **Parallel Surfaces and Curves**  
KIZILTUĞ S., Çakmak A.  
IITH INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Saray Bosna, Bosnia And Herzegovina, 26 - 29 August 2013, pp.288

## Supported Projects

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

ÖZKAN E., KIZILTUĐ S., GÜNDÜZ B., ERİŐİR T., ÖZDİN T., TaŐtan M., Project Supported by Higher Education Institutions, 31. Ulusal Matematik Sempozyumu, 2018 - 2018

## Scientific Refereeing

TURKISH JOURNAL OF MATHEMATICS, SCI Journal, August 2019

ADVANCES IN APPLIED CLIFFORD ALGEBRAS, SCI Journal, July 2017

APPLIED MATHEMATICS AND COMPUTATION, SCI Journal, June 2017

The Scientific World Journal, SCI Journal, May 2014

Kuwait Journal of Science, SCI Journal, August 2013

## Tasks In Event Organizations

Kızıltuđ S., 17. International Geometry Sempoziyum at Erzincan Binali Yıldırım University, Scientific Congress, Turkey, Haziran 2019

Kızıltuđ S., ÖZKAN E., 31. Ulusal Matematik Sempozyumu, Scientific Congress, Turkey, Eylül 2018

## Metrics

Publication: 53

Citation (WoS): 10

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H-Index (Scopus): 2