

## Assoc. Prof. SEZGİN BÜYÜKKÜTÜK

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: F-4963-2018

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### Education Information

Doctorate, Kocaeli University, Fen Bilimleri Enstitüsü, Fen Bilimleri Enstitüsü, Turkey 2012 - 2018

Postgraduate, Kocaeli University, Fen Bilimleri Enstitüsü, Fen Bilimleri Enstitüsü, Turkey 2010 - 2012

### Dissertations

Doctorate, ÇARPANLARA AYRILABİLİR YÜZEYLERİN BİR KARAKTERİZASYONU, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, 2018

Postgraduate, Öklid uzaylarında öteleme yüzeylerinin bir karakterizasyonu, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Matematik Anabilim Dalı, 2012

### Research Areas

Mathematics, Differential Geometry, Geometry

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

- I. **Quaternionic Curves Which Lie on the Special Planes in 4-Dimensional Euclidean Space**  
<mml:msup>E4</mml:msup>  
KİŞİ İ., BÜYÜKKÜTÜK S., Ozturk G.  
JOURNAL OF MATHEMATICS, vol.2024, 2024 (SCI-Expanded)
- II. **A New Approach to Timelike Hypersurfaces of Constant Ratio in  $E_1^4$**   
Büyükkütük S.  
Journal of Mathematics, vol.2023, pp.1-6, 2023 (SCI-Expanded)
- III. **Constant Ratio Quaternionic Curves in Euclidean Spaces**  
ÖZTÜRK G., KİŞİ İ., BÜYÜKKÜTÜK S.  
ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.27, no.2, pp.1659-1673, 2017 (SCI-Expanded)
- IV. **A characterization of curves in Galilean 4-space  $G_4$**   
ÖZTÜRK G., BÜYÜKKÜTÜK S., KİŞİ İ.  
Bulletin Of The Iranian Mathematical Society, vol.43, 2017 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Non-null Translation-Homothetical surfaces in four-dimensional Minkowski space**  
BÜYÜKKÜTÜK S., ÖZTÜRK G.  
Turkish Journal of Science, vol.8, no.1, pp.1-10, 2023 (Peer-Reviewed Journal)
- II. **A new characterization of the Aminov surface with regards to its Gauss map in  $E^4$**   
BÜYÜKKÜTÜK S., ÖZTÜRK G.  
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.12, no.1, pp.25-32, 2023 (Peer-Reviewed Journal)
- III. **An Investigation of Timelike Aminov Surface with respect to its Gauss Map in Minkowski Space-time**  
BÜYÜKKÜTÜK S.  
International Electronic Journal of Geometry, vol.16, no.1, pp.171-180, 2023 (ESCI)
- IV. **A new type timelike surface given with monge patch in  $E^4$**   
Büyükütük S., Öztürk G.  
TWMS Journal of Applied and Engineering Mathematics, vol.11, no.1, pp.176-183, 2021 (Peer-Reviewed Journal)
- V. **Some Characterizations of Curves in n-dimensional Euclidean Space n**  
BÜYÜKKÜTÜK S., KİŞİ İ., ÖZTÜRK G., ARSLAN K.  
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 2020 (Peer-Reviewed Journal)
- VI. **SPACELIKE TRANSLATION SURFACES IN MINKOWSKI 4 SPACE  $E-1(4)$ .**  
BÜYÜKKÜTÜK S., Orturk G.  
FACTA UNIVERSITATIS-SERIES MATHEMATICS AND INFORMATICS, vol.35, no.3, pp.789-800, 2020 (ESCI)
- VII. **An Application of Factorable Surfaces in Euclidean 4-Space  $E^4$**   
Büyükütük S., Öztürk G.  
TWMS Journal of Applied and Engineering Mathematics, vol.9, no.1, pp.121-127, 2019 (Peer-Reviewed Journal)
- VIII. **A Characterization of Factorable Surfaces in Euclidean 4-Space  $E^4$**   
BÜYÜKKÜTÜK S., ÖZTÜRK G.  
Kocaeli Journal of Science and Engineering, vol.1, no.1, pp.15-20, 2018 (Peer-Reviewed Journal)
- IX. **Constant ratio timelike curves in pseudo-Galilean 3-space  $G_{31}$**   
KİŞİ İ., BÜYÜKKÜTÜK S., ÖZTÜRK G.  
Creative Mathematics and Informatics, vol.27, no.1, pp.57-62, 2018 (Peer-Reviewed Journal)
- X. **A Characterization of Non-Lightlike Curves With Respect to Parallel Transport Frame in Minkowski Space-Time**  
BÜYÜKKÜTÜK S., KİŞİ İ., ÖZTÜRK G.  
MALAYSIAN JOURNAL OF MATHEMATICAL SCIENCES, 2018 (Scopus)
- XI. **Constant ratio timelike curves in pseudo-Galilean 3-space  $G_{13}$**   
KİŞİ İ., BÜYÜKKÜTÜK S., ÖZTÜRK G.  
Creative Mathematics and Informatics, 2018 (Peer-Reviewed Journal)
- XII. **A New Characterization of Curves on Dual Unit Sphere**  
KİŞİ İ., BÜYÜKKÜTÜK S., ÖZTÜRK G., ZOR A.  
Journal of Abstract and Computational Mathematics, vol.2, 2017 (Peer-Reviewed Journal)
- XIII. **SPACELIKE FACTORABLE SURFACES IN FOUR-DIMENSIONAL MINKOWSKI SPACE**  
BÜYÜKKÜTÜK S., ÖZTÜRK G.  
BULLETIN OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.9, no.4, pp.12-20, 2017 (ESCI)
- XIV. **A Characterization of Curves According to Parallel Transport Frame in Euclidean n-Space  $E^n$**   
BÜYÜKKÜTÜK S., KİŞİ İ., ÖZTÜRK G.  
New Trends in Mathematical Sciences, vol.5, 2017 (Peer-Reviewed Journal)
- XV. **AW k TYPE CURVES ACCORDING TO PARALLEL TRANSPORT FRAME IN EUCLIDEAN SPACE  $E^4$**   
KİŞİ İ., BÜYÜKKÜTÜK S., DEEPMALA, ÖZTÜRK G.  
Facta Universitatis Series: Mathematics and Informatics, vol.31, no.4, pp.885-905, 2016 (ESCI)
- XVI. **SOME CHARACTERIZATIONS OF CURVES IN GALILEAN 3-SPACE  $G(3)$**   
BÜYÜKKÜTÜK S., KİŞİ İ., MISHRA V. N., ÖZTÜRK G.  
FACTA UNIVERSITATIS-SERIES MATHEMATICS AND INFORMATICS, vol.31, no.2, pp.503-512, 2016 (ESCI)
- XVII. **AW(k)-TYPE CURVES ACCORDING TO PARALLEL TRANSPORT FRAME IN EUCLIDEAN SPACE  $E-4$**

KİŞİ İ., BÜYÜKKÜTÜK S., Deepmala ., ÖZTÜRK G.

FACTA UNIVERSITATIS-SERIES MATHEMATICS AND INFORMATICS, vol.31, no.4, pp.885-905, 2016 (ESCI)

XVIII. **Constant ratio curves according to parallel transportframe in euclidean 4 space E 4**

BÜYÜKKÜTÜK S., ÖZTÜRK G.

New Trends in Mathematical Sciences, vol.3, no.4, pp.171-178, 2015 (Peer-Reviewed Journal)

XIX. **Constant Ratio Curves According to Bishop Frame in Euclidean 3 Space E 3**

BÜYÜKKÜTÜK S., ÖZTÜRK G.

General Mathematics Notes, vol.28, no.1, pp.81-91, 2015 (Peer-Reviewed Journal)

## Books & Book Chapters

I. **MINKOWSKI 3-UZAYINDA Q-ÇATISINA GÖRE SABİT ORANLI TIMELIKE EĞRİLER**

BÜYÜKKÜTÜK S.

in: FEN BİLİMLERİ VE MATEMATİKTE ULUSLARARASI TEORİ, ARAŞTIRMA VE DERLEMELER Ekim 2023, Akgül

Hasan, Editor, Serüven Yayın Evi, Ankara, pp.219-233, 2023

II.  **$E_1^3$  MINKOWSKI UZAYINDA SABİT ORANLI BAZI DÖNEL YÜZEYLER**

BÜYÜKKÜTÜK S.

in: Fen Bilimleri & Matematikte Güncel Araştırmalar Haziran 2023, Dayangaç Alpaslan, Akgül Hasan, Özomay

Zafer, Özomay Meral, Editor, Gece Publishing / Gece Kitaplığı, Ankara, pp.51-66, 2023

## Refereed Congress / Symposium Publications in Proceedings

I. **A Characterization of Curves with respect to Quasi frame in  $E^3$**

Kalmuk R., Büyükkütük S., Öztürk G.

ICOLES 2023, Antalya, Turkey, 2 - 05 November 2023, pp.87

II. **A New Aspect to Rotating Surface in  $E_1^3$**

BÜYÜKKÜTÜK S.

10th International Zeugma Conference on Scientific Research, Gaziantep, Turkey, 25 - 26 June 2023, pp.991-995

III. **A New Result on a Class of Digital Graph Surface in  $E_1^4$**

BÜYÜKKÜTÜK S.

10th International Zeugma Conference on Scientific Research, Gaziantep, Turkey, 25 - 26 June 2023, pp.996-999

IV. **A New Research on a Class of Surface Given with Monge Patch in  $E^4$**

BÜYÜKKÜTÜK S.

IMASCON 2022 AUTUMN, Kocaeli, Turkey, 09 December 2022

V. **Spacelike TF-Type Surfaces in Minkowski Space-Time**

Büyükkütük S., Öztürk G.

ICOLES-2022, Antalya, Turkey, 19 - 22 May 2022, pp.20

VI. **Timelike TF-Surfaces in Minkowski 4-Space  $E_1^4$**

Büyükkütük S.

ICOLES-2021, İstanbul, Turkey, 23 - 25 September 2021, pp.15

VII. **Timelike Aminov Surfaces of Elliptic Type in Minkowski 4-Space  $E_1^4$**

BÜYÜKKÜTÜK S., ÖZTÜRK G.

2nd International Conference on Life and Engineering Sciences, 27 - 29 June 2019

VIII. **Timelike Aminov Surfaces of Hyperbolic Type in Minkowski 4-Space  $E_1^4$**

BÜYÜKKÜTÜK S., ÖZTÜRK G.

2nd International Conference on Life and Engineering Sciences, 27 - 29 June 2019

IX. **Focal Surface of a Tubular Surface with Darboux Frame in  $E^3$**

ÖZTÜRK G., BÜYÜKKÜTÜK S., KİŞİ İ.

International Conference on Mathematics and Mathematics Education(ICMME 2019), 11 - 13 July 2019

- X. **FOCAL SURFACE OF A TUBULAR SURFACE WITH BISHOPFRAME IN E3**  
KİŞİ İ., BÜYÜKKÜTÜK S., ÖZTÜRK G.  
IFSCOM20185th Ifs And Contemporary Mathematics Conference, 5 - 09 September 2018
- XI. **Timelike Factorable Surfaces in Minkowski 4-Space E<sub>14</sub>**  
BÜYÜKKÜTÜK S., ÖZTÜRK G.  
16th International Geometry Symposium, 4 - 07 July 2018
- XII. **A Characterization of Factorable Surfaces in Euclidean 4-Space E<sub>4</sub>**  
BÜYÜKKÜTÜK S., ÖZTÜRK G.  
16th International Geometry Symposium, 4 - 07 July 2018
- XIII. **Spacelike Aminov Surfaces of Hyperbolic Type in Four Dimensional Minkowski Space E<sub>14</sub>**  
BÜYÜKKÜTÜK S., ÖZTÜRK G.  
16th International Geometry Symposium, 4 - 07 July 2018
- XIV. **Focal Surfaces of a Tubular Surface with Respect to Frenet Frame in E<sub>3</sub>**  
KİŞİ İ., BÜYÜKKÜTÜK S., ÖZTÜRK G.  
16th International Geometry Symposium, 4 - 07 July 2018
- XV. **Spacelike Aminov Surfaces of Elliptic Type in Four Dimensional Minkowski Space E<sub>14</sub>**  
BÜYÜKKÜTÜK S., KİŞİ İ., ÖZTÜRK G.  
16th International Geometry Symposium, 4 - 07 July 2018
- XVI. **Constant Ratio Quaternionic Curves in Euclidean 3 Space E<sub>3</sub>**  
ÖZTÜRK G., KİŞİ İ., BÜYÜKKÜTÜK S.  
14th International Geometry Symposium, 25 - 28 May 2016
- XVII. **Involutes of Order k of a Space-like Curve in E<sub>1</sub><sup>4</sup>**  
ÖZTÜRK G., KİŞİ İ., BÜYÜKKÜTÜK S., ARSLAN K.  
6th International Eurasian Conference on Mathematical Sciences and Applications, Budapeşte, Hungary, 15 August 2017, pp.206
- XVIII. **Some Characterizations of Curves in n-Dimensional Euclidean Space E<sub>n</sub>**  
ÖZTÜRK G., BÜYÜKKÜTÜK S., KİŞİ İ., ARSLAN K.  
15th International Geometry Symposium, 3 - 06 July 2017
- XIX. **Spacelike Translation Surfaces in Minkowski 4-Space E<sub>1 4</sub>**  
BÜYÜKKÜTÜK S., KİŞİ İ., ÖZTÜRK G.  
15th International Geometry Symposium, 3 - 06 July 2017
- XX. **Tubular Surface with Pointwise 1-Type Gauss Map in Euclidean 4-Space**  
KİŞİ İ., BÜYÜKKÜTÜK S., ÖZTÜRK G.  
15th International Geometry Symposium, 3 - 06 July 2017
- XXI. **Spacelike Translation Surfaces in Minkowski 4-Space IE<sub>14</sub>**  
BÜYÜKKÜTÜK S., KİŞİ İ., ÖZTÜRK G.  
15th International Geometry Symposium, 3 - 06 July 2017
- XXII. **A new type tubular surface with pointwise 1-type Gauss map in Euclidean 4-space**  
KİŞİ İ., BÜYÜKKÜTÜK S., ÖZTÜRK G.  
15th International Geometry Symposium, Amasya, Turkey, 3 - 06 July 2017
- XXIII. **A New Characterization of Curves on Dual Unit Sphere**  
KİŞİ İ., BÜYÜKKÜTÜK S., ÖZTÜRK G.  
International Conference on Mathematics and Engineering (ICOME 2017), 10 - 12 May 2017
- XXIV. **Spacelike Factorable Surfaces in 4-Dimensional Minkowski Space**  
BÜYÜKKÜTÜK S., ÖZTÜRK G.  
International Conference on Mathematics and Engineering (ICOME 2017), 10 - 12 May 2017
- XXV. **Constant Ratio Quaternionic Curves in Euclidean 4 Space E<sub>4</sub>**  
KİŞİ İ., BÜYÜKKÜTÜK S., ÖZTÜRK G.  
International Congress on Fundamental and Applied Sciences (ICFAS 2016), 22 - 26 August 2016
- XXVI. **A Characterization of Non Null Curves According to Parallel Transport Frame in Minkowski Space Time**

BÜYÜKKÜTÜK S., KİŞİ İ., ÖZTÜRK G.

International Congress on Fundamental and Applied Sciences (ICFAS 2016), 22 - 26 August 2016

**XXVII. Some Characterizations of Curves in Pseudo Galilean 3 Space**

KİŞİ İ., BÜYÜKKÜTÜK S., ÖZTÜRK G.

14th International Geometry Symposium, 25 - 28 May 2016

**XXVIII. On Factorable Surfaces in Euclidean 4 Space E 4**

BÜYÜKKÜTÜK S., ÖZTÜRK G.

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

**XXIX. A Characterization of Curves According to Parallel Transport Frame in Euclidean n space E n**

BÜYÜKKÜTÜK S., KİŞİ İ., ÖZTÜRK G.

International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM 2016), 19 - 23 May 2016

**XXX. On Constant Ratio Curves in Galilean Spaces**

BÜYÜKKÜTÜK S., KİŞİ İ., ÖZTÜRK G.

4\_th International Eurasian Conference on Mathematical Sciences and Applications, , , (2015), 31 August - 03 September 2015

**XXXI. On Constant Ratio Curves According to Bishop Frame in Euclidean Spaces**

BÜYÜKKÜTÜK S., ÖZTÜRK G.

13. Geometri Sempozyumu, İstanbul, Turkey, 27 - 30 July 2015

**XXXII. AW k Type Curves According to Parallel Transport Frame in Euclidean Space E 4**

KİŞİ İ., ÖZTÜRK G., BÜYÜKKÜTÜK S., ARSLAN K.

12. Ulusal Geometri Sempozyumu, , , (2014), Turkey, 23 - 26 June 2014

## Metrics

Publication: 57

Citation (WoS): 19

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