Assoc. Prof. Ergin Bayram

Personal Information

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International Researcher IDs
ORCID: 0000-0003-2633-0991
Publons / Web Of Science ResearcherID: K-2666-2012
ScopusID: 55171722000
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Education Information

Doctorate, Ondokuz Mayis University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 2011 - 2017
Postgraduate, Ondokuz Mayis University, Fen Bilimleri Enstitüsü, Matematik (Yl) (Tezli), Turkey 2009 - 2011
Undergraduate, Middle East Technical University, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 2000 - 2005

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, 3-boyutlu Öklid ve Minkowski uzaylarında ikinci tip serbest elastik eğri için doğal denklemler, Ondokuz Mayis University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2017
Postgraduate, E4 te ortak geodezikli hiperyüzey ailesi, Ondokuz Mayis University, Fen Bilimleri Enstitüsü, Matematik (Yl) (Tezli), 2011

Academic Titles / Tasks

Associate Professor, Ondokuz Mayis University, Fen Fakültesi, Matematik Bölümü, 2021 - Continues
Ondokuz Mayis University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2018 - 2021
Research Assistant, Hitit University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2017 - 2018
Research Assistant, Ondokuz Mayis University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2011 - 2017
Research Assistant, Hitit University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2010 - 2011
Research Assistant, Ondokuz Mayis University, Fen Fakültesi, Matematik Bölümü, 2009 - 2010

Academic and Administrative Experience

Deputy Head of Department, Ondokuz Mayis University, Fen Fakültesi, Matematik Bölümü, 2018 - 2022

Courses

UFMA 609 DİFERANSİYEL GEOMETRİ I, Postgraduate, 2020 - 2021, 2018 - 2019
ECON 103 CALCULUS FOR ECONOMISTS I, Undergraduate, 2020 - 2021, 2019 - 2020
MAT 101 MATEMATİK, Associate Degree, 2020 - 2021, 2019 - 2020
CGL 101 MATEMATİK I, Associate Degree, 2020 - 2021, 2019 - 2020, 2018 - 2019
TBMAT 101 MATEMATİK I, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019
MAT 209 MESLEKİ YABANCI DİL I, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019
FMA 853 UZMANLIK ALAN DERSİ I, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019
TBMAT 103 MATEMATİK I, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019
TBMAT102 MATEMATİK II, Undergraduate, 2019 - 2020, 2018 - 2019
MAT 500 MESLEKİ UYGULAMA PROGRAMI, Undergraduate, 2019 - 2020, 2018 - 2019
UFMA 610 DİFERANSİYEL GEOMETRİ II, Postgraduate, 2019 - 2020
TBMAT 104 MATEMATİK II, Undergraduate, 2019 - 2020, 2018 - 2019
MAT 104 LİNEER CEBİR II, Undergraduate, 2019 - 2020
ECON 104 CALCULUS FOR ECONOMISTS II, Undergraduate, 2019 - 2020
MAT 103 LİNEER CEBİR I, Undergraduate, 2019 - 2020
FMA 854 UZMANLIK ALAN DERSİ II, Postgraduate, 2019 - 2020
MAT 479 DÖNÜŞÜMLER VE GEOMETRİLER, Undergraduate, 2019 - 2020, 2018 - 2019
MAT 210 MESLEKİ YABANCI DİL II, Undergraduate, 2019 - 2020, 2018 - 2019
UFMA 610 DİFERANSİYEL GEOMETRİ II, Postgraduate, 2018 - 2019
FMA 854 UZMANLIK ALAN DERSİ II, Undergraduate, 2018 - 2019
MAT 490 BİTİRME ÇALIŞMASI, Undergraduate, 2018 - 2019
MAT 101 MATEMATİK I, Associate Degree, 2018 - 2019
SYB 431 TEMEL MATEMATİK, Undergraduate, 2018 - 2019
TBMAT 104 MATEMATİK II (EĞT. FAK.), Undergraduate, 2017 - 2018
TBMAT102 MATEMATİK II, Undergraduate, 2017 - 2018
İST 204 İSTATİSTİKÇİLER İÇİN İLERİ MATEMATİK II, Undergraduate, 2017 - 2018
TBMAT 104 MATEMATİK II, Undergraduate, 2017 - 2018
UFMA 609 DİFERANSİYEL GEOMETRİ I, Postgraduate, 2017 - 2018
UFMA 610 DİFERANSİYEL GEOMETRİ II, Postgraduate, 2017 - 2018

Advising Theses

Bayram E., E^3 te verilen bir eğri boyunca sabit ortalama eğrilikli yüzey ailesi, Postgraduate, H.COŞANOĞLU(Student), 2021

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Surface family interpolating a common spherical indicatrix curve**
    Güler F., Bayram E., Kasap E.
    Filomat, vol.38, no.3, pp.821-831, 2024 (SCI-Expanded)
II. **Magnetic spherical indicatricies in Minkowski 3-space**
    Güler F., BAYRAM E., Kasap E.
    INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, vol.20, no.11, 2023 (SCI-Expanded)
III. **Magnetic flux ruled surfaces**
    BAYRAM E., Güler F., Kasap E.
    MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.46, no.5, pp.5989-6001, 2023 (SCI-Expanded)
IV. **Some properties of parametric surfaces with a mixed-type curve**
    BAYRAM E.
    OPTIK, vol.272, 2023 (SCI-Expanded)

V.   **Surface pencil with a common adjoint curve**
BAYRAM E.
TURKISH JOURNAL OF MATHEMATICS, vol.44, no.5, pp.1649-1659, 2020 (SCI-Expanded)

VI.   **Offset surface pencil with a common asymptotic curve**
Güler F., BAYRAM E., Kasap E.
INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, vol.15, no.11, 2018 (SCI-Expanded)

VII.   **Surface family with a common involute asymptotic curve**
BAYRAM E., Bilici M.
INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, vol.13, no.5, 2016 (SCI-Expanded)

VIII.   **Intrinsic equations for a relaxed elastic line of second kind on an oriented surface**
BAYRAM E., Kasap E.
INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, vol.13, no.3, 2016 (SCI-Expanded)

IX.   **Intrinsic Equations for a Relaxed Elastic Line of Second Kind in Minkowski 3-Space**
BAYRAM E., Kasap E.
FILOMAT, vol.29, no.3, pp.493-505, 2015 (SCI-Expanded)

X.   **Surface Pencil with a Common Line of Curvature in Minkowski 3-Space**
Ergün E., BAYRAM E., Kasap E.
ACTA MATHEMATICA SINICA-ENGLISH SERIES, vol.30, no.12, pp.2103-2118, 2014 (SCI-Expanded)

XI.   **Parametric representation of a surface pencil with a common asymptotic curve**
BAYRAM E., Güler F., Kasap E.
COMPUTER-AIDED DESIGN, vol.44, no.7, pp.637-643, 2012 (SCI-Expanded)

Articles Published in Other Journals

I.   **On the Construction of the Surface Family with a Common Involute Geodesic**
BİLİCİ M., BAYRAM E.
Konuralp Journal of Mathematics, vol.11, no.1, pp.162-168, 2023 (Peer-Reviewed Journal)

II.   **Constant mean curvature surfaces along a spacelike curve**
BAYRAM E.
CUMHURIYET SCIENCE JOURNAL, vol.43, pp.454-459, 2022 (Peer-Reviewed Journal)

III.   **Construction of Surfaces with Constant Mean Curvature Along a Timelike Curve**
BAYRAM E.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.25, no.3, pp.1211-1215, 2022 (ESCI)

IV.   **Interpolation of Surfaces with Line of Curvature**
BAYRAM E.
INTERNATIONAL ELECTRONIC JOURNAL OF GEOMETRY, vol.14, no.2, pp.239-246, 2021 (ESCI)

V.   **AN APPROACH FOR DESIGNING A SURFACE PENCIL THROUGH A GIVEN GEODESIC CURVE**
Şaffak Atalay G., Güler F., BAYRAM E., Kasap E.
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.70, no.1, pp.555-568, 2021 (ESCI)

VI.   **Construction of offset surfaces with a given non-null asymptotic curve**
BAYRAM E., GÜLER F.
FACTA UNIVERSITATIS-SERIES MATHEMATICS AND INFORMATICS, vol.36, no.5, pp.983-993, 2021 (ESCI)

VII.   **Surface construction with a common involute line of curvature**
Bilici M., Bayram E.
International Journal of Open Problems in Computer Science and Mathematics, vol.14, no.2, 2021 (Peer-Reviewed Journal)

VIII.   **Verilen Bir Eğri Boyunca Gauss Eğriliği Sabit Olan Yüzeyler**
BAYRAM E.
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.20, pp.819-823, 2020 (Peer-Reviewed

Journal)

IX. **Construction of Surfaces with Constant Mean Curvature along a Curve in E3**
COŞANOĞLU H., BAYRAM E.
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.24, no.3, pp.533-538, 2020 (Peer-Reviewed Journal)

X. **Surface Family with a Common Natural Asymptotic or Geodesic Lift of a Spacelike Curve with Spacelike Binormal in Minkowski 3-Space**
ERGÜN E., BAYRAM E.
Konuralp Journal of Mathematics, vol.8, no.1, pp.7-11, 2020 (Peer-Reviewed Journal)

XI. **An approach for designing a surface pencil through a given asymptotic curve**
GÜLER F., ŞAFFAK ATALAY G., BAYRAM E., KASAP E.
Journal of Applied Mathematics and Computation, 2019 (Peer-Reviewed Journal)

XII. **Surface family with a common natural geodesic lift of a timelike curve in Minkowski 3-space**
ERGÜN E., BAYRAM E., KASAP E.
JOURNAL OF SCIENCE AND ARTS, vol.2, no.47, pp.265-274, 2019 (Peer-Reviewed Journal)

XIII. **Surface Family With a Common Natural Asymptotic Lift of a Spacelike Curve with Timelike Binormal in Minkowski 3-Space**
ERGÜN E., BAYRAM E.
Iğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.9, no.2, pp.1082-1089, 2019 (Peer-Reviewed Journal)

XIV. **Surface Family with a Common Natural Geodesic Lift of a Spacelike Curve with Timelike Binormal in Minkowski 3-Space**
BAYRAM E., ERGÜN E., KASAP E.
Hagia Sophia Journal of Geometry (HSJG),, vol.1, no.1, pp.17-23, 2019 (Peer-Reviewed Journal)

XV. **Surface Family With A Common Natural Geodesic Lift of a Timelike Curve In Minkowski**
ERGÜN E., BAYRAM E., KASAP E.
JOURNAL OF SCIENCE AND ARTS, vol.2, no.47, pp.265-274, 2019 (Peer-Reviewed Journal)

XVI. **SURFACE FAMILY WITH A COMMON ASYMPTOTIC CURVE IN MINKOWSKI 3-SPACE**
Şaffak Atalay G., BAYRAM E., Kasap E.
JOURNAL OF SCIENCE AND ARTS, no.2, pp.357-370, 2018 (ESCI)

XVII. **GEODESICS, LINE OF CURVATURES AND ASYMPTOTIC CURVES VERSUS RELAXED ELASTIC LINES ON AN ORIENTED SURFACE**
BAYRAM E., Kasap E.
JOURNAL OF SCIENCE AND ARTS, no.1, pp.37-40, 2017 (ESCI)

XVIII. **Surface Pencil with a Common Natural Line of Curvature Lift**
ERGÜN E., BAYRAM E., KASAP E.
JOURNAL OF SCIENCE AND ARTS, vol.4, no.33, pp.321-328, 2015 (Peer-Reviewed Journal)

XIX. **SURFACE FAMILY WITH A COMMON NATURAL ASYMPTOTIC LIFT**
BAYRAM E., Ergün E., Kasap E.
JOURNAL OF SCIENCE AND ARTS, no.2, pp.117-124, 2015 (ESCI)

XX. **HOW TO FIND THE INVERSE OF A MATRIX IN LORENTZ SPACE**
Bilici M., BAYRAM E.
JOURNAL OF SCIENCE AND ARTS, no.4, pp.315-320, 2015 (ESCI)

XXI. **SURFACE FAMILY WITH A COMMON NATURAL LINE OF CURVATURE LIFT**
Ergün E., BAYRAM E., Kasap E.
JOURNAL OF SCIENCE AND ARTS, no.4, pp.321-328, 2015 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

I. **Interpolation of surfaces with line of curvature**
BAYRAM E.

4th International Istanbul Scientific Research Congress, 2 - 04 April 2021

II. **Surfaces with constant mean curvature along a curve in 3-dimensional Euclidean space**
BAYRAM E., Coşanoğlu H.
9th International Eurasian Conference on Mathematical Sciences and Applications, 25 - 28 August 2020

III. **On the lightcone frame in Minkowski 3-space**
BAYRAM E.
9th International Eurasian Conference on Mathematical Sciences and Applications, 25 - 28 August 2020

IV. **Ortak asimptotik eğrili yüzey ailesi çifti**
BAYRAM E.
32. Ulusal Matematik Sempozyumu, Turkey, 31 August - 04 September 2019

V. **Surface family with a common natural geodesic lift of a spacelike curve with spacelike binormal in Minkowski 3-space**
ERGÜN E., BAYRAM E.
The International Conference on Mathematics and Mathematics Education, Turkey, 27 - 29 June 2018

VI. **Surface family with a common natural asymptotic lift of a spacelike curve with spacelike binormal in Minkowski 3-space**
ERGÜN E., BAYRAM E.
The International Conference on Mathematics and Mathematics Education, 27 - 29 June 2018

VII. **Surface family with a common natural line of curvature lift**
ERGÜN E., BAYRAM E., KASAP E.
International Conference on Computational and Statistical Methods in Applied Sciences COSTAS 2017, 9 - 11 November 2017

VIII. **Surface family with a common natural asymptotic lift of a spacelike curve with timelike binormal in Minkowski 3-space**
ERGÜN E., BAYRAM E., KASAP E.
The 15th International Geometry Symposium, 3 - 06 July 2017

IX. **Surface family with a common natural asymptotic lift of a timelike curve in Minkowski 3-space**
BAYRAM E., ERGÜN E.
The 15th International Geometry Symposium, 3 - 06 July 2017

X. **Surface family with a common natural geodesic lift of a timelike curve in Minkowski 3 space**
BAYRAM E., ERGÜN E.
Conference XIX Geometrical Seminar, 28 August - 04 September 2016

XI. **Surface family with a common natural geodesic lift**
BAYRAM E., ERGÜN E.
27th Nordic Congress of Mathematicians, 16 - 20 March 2016

XII. **Ortak asimptotik eğrili hiperyüzey ailesi**
Bayram E., Kasap E.
XIII. Geometri Sempozyumu, İstanbul, Turkey, 27 - 30 July 2015

XIII. **An approach for designing a surface pencil through a given asymptotic curve**
GÜLER F., ŞAFFAK ATALAY G., BAYRAM E., KASAP E.
Conference on Geometry: Theory and Applications, 8 - 12 June 2015

XIV. **Some special relaxed elastic lines**
BAYRAM E., KASAP E.
XII. Geometri Sempozyumu, Bilecik, Turkey, 23 - 26 June 2014

XV. **Intrinsic equations for a relaxed elastic line of second kind in Minkowski 3 Space**
BAYRAM E., KASAP E.
XVIII Geometrical Seminar, Vrnjacka Banja, Serbia, 25 - 28 May 2014

XVI. **Parametric representation of a surface pencil with a common asymptotic curve**
Bayram E., Güler F., Kasap E.
Conference on Geometry, İstanbul, Turkey, 19 - 23 March 2014

XVII. **Relaxed elastic line of second kind on an oriented surface**

BAYRAM E., KASAP E.

Differential Geometry and its Applications, Brno, Czech Republic, 19 - 23 August 2013

XVIII. **Surfaces with a common asymptotic curve in Minkowski 3 space**

Şaffak Atalay G., Bayram E., Kasap E.

XI. Geometri Sempozyumu, Ordu, Turkey, 1 - 05 July 2013

XIX. **Surface pencil with a common line of curvature in Minkowski 3 space**

ERGÜN E., BAYRAM E., KASAP E.

11. Matematik Sempozyumu, Samsun, Turkey, 19 - 21 September 2012

XX. **A generalization of a surface pencil with a common line of curvature**

Bayram E., Kasap E.

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

XXI. **Hypersurface family with a common spatial geodesic in R 4**

Bayram E., Kasap E.

9. Geometri Sempozyumu, Samsun, Turkey, 7 - 10 June 2011