

Prof. MUSTAFA ÇALIŞKAN

Personal Information

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Education Information

Postgraduate, Inonu University, Fen Bilimleri Enstitüsü, Geometri (YI) (Tezli), Turkey 1978 - 1980

Undergraduate, Ankara University, Fen Fakültesi, Matematik Bölümü, Turkey 1973 - 1978

Dissertations

Postgraduate, Kapalı Uzay Eğrilerinin Diferensiyel Geometrisi, Inonu University, Genel Türk Tarihi, Geometri (YI) (Tezli), 1980

Research Areas

Mathematics, Natural Sciences

Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, Matematik, 2011 - Continues

Professor, Ondokuz Mayıs University, Faculty Of Arts And Sciences, Department Of Mathematics, 2003 - 2011

Associate Professor, Ondokuz Mayıs University, Faculty Of Arts And Sciences, Department Of Mathematics, 1998 - 2003

Associate Professor, Ondokuz Mayıs University, Faculty Of Education, Department Of Mathematics And Science Teaching, 1996 - 1998

Assistant Professor, Ondokuz Mayıs University, Faculty Of Education, Department Of Mathematics And Science Teaching, 1989 - 1996

Assistant Professor, Inonu University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 1986 - 1989

Lecturer PhD, Inonu University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 1984 - 1986

Research Assistant, Inonu University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 1978 - 1984

Academic and Administrative Experience

Gazi University, Fen Fakültesi, Matematik Bölümü, 2017 - Continues

Gazi University, Fen Fakültesi, Matematik Bölümü, 2012 - Continues

Gazi University, Fen Fakültesi, 2016 - 2019

Gazi University, Fen Fakültesi, 2012 - 2015

Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2010 - 2011

Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2010 - 2011

Ondokuz Mayıs University, Terme Meslek Yüksekokulu, 2000 - 2000

Amasya University, Merzifon Meslek Yüksekokulu, 1998 - 2000

Ondokuz Mayıs University, Eğitim Fakültesi, Ortaöğretim Fen Ve Matematik Alanlar Eğitimi Bölümü, 1996 - 1998
Inonu University, El Sanatları Geleneği, Matematik Bölümü, 1986 - 1989

Advising Theses

- ÇALIŞKAN M., Lift Curves And Ruled Surfaces, Postgraduate, Ş.AFŞAR(Student), 2021
ÇALIŞKAN M., Some Characterizations For Curves And Surfaces In Dual Space, Doctorate, E.KARACA(Student), 2020
ÇALIŞKAN M., M-Integral Curve and m-Geodesic Spray On The Dual Space, Postgraduate, Y.AKBABA(Student), 2019
ÇALIŞKAN M., Konoidal Regle Yüzeyler İçin Bazı Karakterizasyonlar, Postgraduate, B.KARTAL(Student), 2019
ÇALIŞKAN M., On Ruled Surfaces İn Lorentz Space, Postgraduate, N.DEMİRAN(Student), 2019
ÇALIŞKAN M., Ruled Surface Pair Generated By Darboux Vectors Of A Curve And Its Natural Lift In Dual Space, Postgraduate, T.BAYSAL(Student), 2019
ÇALIŞKAN M., Ruled Surfaces With Striction Scroll In Dual Space, Postgraduate, L.ÖZYURT(Student), 2019
ÇALIŞKAN M., On Geodesic Sprays In Dual Space, Postgraduate, E.KARACA(Student), 2015
ÇALIŞKAN M., On konoidal ruled surfaces in dual space, Postgraduate, S.AYDIN(Student), 2014
ÇALIŞKAN M., 3-boyutlu Minkowski uzayında lift eğrileri ve geodezik spraylar üzerine, Doctorate, E.ERGÜN(Student), 2013
ÇALIŞKAN M., İki yüzeyin arakesit eğrisi için bazı karakterizasyonlar, Doctorate, B.UYAR(Student), 2009
ÇALIŞKAN M., Minkowski uzayında striksiyon scroll'lu regle yüzeyler için bazı karakterizasyonlar, Postgraduate, F.SAATÇI(Student), 2009
ÇALIŞKAN M., Timelike veya spacelike involüt-evolüt eğri çiftleri üzerine, Doctorate, M.BİLİCİ(Student), 2009
ÇALIŞKAN M., Bir eğri veya yüzeyin diğeri üzerinde yuvarlanması, Postgraduate, A.BAYÇELEBİ(Student), 2007
ÇALIŞKAN M., Regle yüzeyler üzerine, Postgraduate, A.EMİNE(Student), 2006
ÇALIŞKAN M., Satriksiyon scroll'lu regle yüzeyler, Postgraduate, K.TELCİ(Student), 2006
ÇALIŞKAN M., Konoidal regle yüzeyler üzerine, Postgraduate, V.EKİZ(Student), 2005
ÇALIŞKAN M., Aksoid yüzeyleri üzerine, Postgraduate, Ö.ACAR(Student), 2003
ÇALIŞKAN M., $IRn1$ minkowski uzayının $Rs1(k)$ uzay formunun m-boyutlu altmanifoldları üzerine, Doctorate, K.ORBAY(Student), 2000
ÇALIŞKAN M., Paralel regle yüzeyler ve bazı karakteristik özellikleri, Doctorate, S.ŞENYURT(Student), 1999
ÇALIŞKAN M., İnvolüt-evolüt eğrilerinin küresel göstergelerinin eğrilikleri ve tabii liftleri, Postgraduate, M.BİLİCİ(Student), 1999
ÇALIŞKAN M., Genelleştirilmiş regle hiperyüzeyler için bazı karakterizasyonlar, Postgraduate, E.ANLI(Student), 1996
ÇALIŞKAN M., $IRn1$ minkowski uzayında spacelike doğrultman uzaylı genelleştirilmiş time-like regle yüzeyler, Doctorate, M.TOSUN(Student), 1995
ÇALIŞKAN M., Homotetik hareketlere iştirak eden konodial regle yüzey çeşitleri üzerine, Postgraduate, K.AKDEMİR(Student), 1995
ÇALIŞKAN M., Dual regle yüzeyler üzerine, Postgraduate, S.ŞENYURT(Student), 1994
ÇALIŞKAN M., Regle yüzeyler için bazı karakterizasyonlar, Postgraduate, H.DEMİR(Student), 1992
ÇALIŞKAN M., E^4 de simetrik helisel hareketlere iştirak eden aksoid yüzey çiftleri üzerine., Postgraduate, M.TOSUN(Student), 1992

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Dual Hybrid Numbers and Their Hybrid Matrix Representations**
ALTINKAYA A., ÇALIŞKAN M.
Proceedings of the National Academy of Sciences India Section A - Physical Sciences, vol.94, no.3, pp.301-307, 2024
(SCI-Expanded)
- II. **A Unified Approach: Split Quaternions with Quaternion Coefficients and Quaternions with Dual Coefficients**

Articles Published in Other Journals

- I. **INTERSECTIONS OF RULED SURFACES CORRESPONDING TO CURVES ON PSEUDO SPHERES IN DUAL SPACE**
Oztemir Y., ÇALIŞKAN M.
JOURNAL OF SCIENCE AND ARTS, no.1, pp.61-76, 2023 (ESCI)
- II. **On the curvatures of the ruled surfaces of b-lift curves**
ALTINKAYA A., ÇALIŞKAN M.
Cumhuriyet Science Journal, vol.42, no.4, pp.873-877, 2021 (Peer-Reviewed Journal)
- III. **Ruled Surfaces and Tangent Bundle of Pseudo- Sphere of Natural Lift Curves**
KARACA E., ÇALIŞKAN M.
JOURNAL OF SCIENCE AND ARTS, 2020 (ESCI)
- IV. **SOME CHARACTERIZATIONS OF M-GEODESIC SPRAY AND M-INTEGRAL CURVE IN DUAL SPACE**
ÇALIŞKAN M., ALTINKAYA A.
JOURNAL OF SCIENCE AND ARTS, vol.50, no.1, pp.85-90, 2020 (ESCI)
- V. **Ruled Surfaces and Tangent Bundle of Unit 2-Sphere of Natural Lift Curves**
KARACA E., ÇALIŞKAN M.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.33, pp.751-759, 2020 (ESCI)
- VI. **SOME CHARACTERIZATIONS OF (M)over-bar-GEODESIC SPRAY AND (M)over-bar-INTEGRAL CURVE IN DUAL SPACE**
Akbaba Y., ÇALIŞKAN M., ALTINKAYA A.
JOURNAL OF SCIENCE AND ARTS, no.1, pp.85-90, 2020 (ESCI)
- VII. **Some New Results on the Curvatures of the Spherical Indicatrices of the Involutes of a Spacelike Curve with a Spacelike Binormal in Minkowski 3-Space**
BİLİCİ M., ÇALIŞKAN M.
MathLAB Journal, vol.2, no.1, pp.110-119, 2019 (Peer-Reviewed Journal)
- VIII. **“Dual Spherical Curves of Natural Lift Curve and Tangent Bundles of Unit 2-Sphere”**
ÇALIŞKAN M., KARACA E.
Journal of Science and Arts, 2019 (ESCI)
- IX. **On Ruled Surfaces with Striction Scroll in Dual Space**
KARACA E., ÇALIŞKAN M.
Journal of Science and Arts, 2019 (ESCI)
- X. **The Natural Lift Curve of The Fixed Centroid of a Non Null Curve In Minkowski 3 Space**
ÇALIŞKAN M., ERGÜN E.
Malaya Journal of Matematik, vol.4, no.3, pp.338-348, 2016 (Peer-Reviewed Journal)
- XI. **Ruled Surface Pair Generated By Darboux Vectors of a Curve and Its Natural Lift in IR 13**
ERGÜN E., ÇALIŞKAN M.
International J.Math. Combin., vol.2, no.10, pp.16-28, 2016 (Peer-Reviewed Journal)
- XII. **A New Approach to Natural Lift Curves of the Spherical Indicatrices of Timelike Bertrand Mate of a Spacelike Curve In Minkowski 3 Space**
BİLİCİ M., ERGÜN E., ÇALIŞKAN M.
International J.Math. Combin., vol.1, no.9, pp.34-48, 2015 (Peer-Reviewed Journal)
- XIII. **Some Particular Examples for the Natural Lift Curve in Minkowski 3 Space**
ERGÜN E., ÇALIŞKAN M.
Scholars Journal of Physics, Mathematics and Statistics, vol.2, no.2, pp.221-232, 2015 (Peer-Reviewed Journal)
- XIV. **Some Characterizations for the Involute Curves in Dual Space**
ŞENYURT S., BİLİCİ M., ÇALIŞKAN M.

INTERNATIONAL JOURNAL OF MATHEMATICAL COMBINATORICS, vol.1, no.9, pp.113-125, 2015 (Peer-Reviewed Journal)

- XV. **Ruled Surface Pair Generated By Darboux Vectors of a Curve and Its Natural Lift in IR 3**
ERGÜN E., ÇALIŞKAN M.
Bulletin of Mathematics and Statistics Research, vol.3, no.2, pp.125-134, 2015 (Peer-Reviewed Journal)
- XVI. **The Natural Lift Curve of The Spherical Indicatrix of a Spacelike Curve In Minkowski 4 Space**
ERGÜN E., BİLİCİ M., ÇALIŞKAN M.
Journal of Science and Arts, vol.1, no.30, pp.39-54, 2015 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **SOME CHARACTERIZATIONS FOR SPLITQUATERNIONS**
KARACA E., YILMAZ F., ÇALIŞKAN M.
International Conference on Mathematics and its Applications in Science and Engineering, 9 - 10 July 2020
- II. **Some Characterizations for the B-Lift Curve**
ALTINKAYA A., ÇALIŞKAN M.
9th International Eurasian Conference on Mathematical Sciences and Applications, Üsküp, Macedonia, 25 - 28 August 2020
- III. **On Slant Ruled Surfaces and Tangent Bundle of Unit 2-Sphere**
KARACA E., ÇALIŞKAN M.
9th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA 2020), 25 - 28 August 2020
- IV. **A New Approach for Natural Lift Curves and Tangent Bundle of Unit 2-Sphere**
KARACA E., ÇALIŞKAN M.
International Conference On Mathematics and Its Applications In Science and Engineering, (ICMASE 2020), 9 - 10 July 2020
- V. **“On ruled surfaces of natural lift curves and tangent bundle of pseudo-sphere”**
KARACA E., ÇALIŞKAN M.
3rd International Conference of Mathematical Sciences, 4 - 08 September 2019
- VI. **3 Boyutlu Öklid Uzayında Bir Eğrinin Tabii Lifti ve Mannheim Çifti Üzerine**
ALTINKAYA A., ÇALIŞKAN M.
32. Ulusal Matematik Sempozyumu, Turkey, 31 August - 03 September 2019
- VII. **Tabii Lift Eğrilerinin Oluşturduğu Regle Yüzeyler**
ÇALIŞKAN M., KARACA E.
32. Ulusal Matematik Sempozyumu, Turkey, 31 August - 03 September 2019
- VIII. **Dual Uzayda Bir Eğrinin Tabii Lifti ve İnvölütü Üzerine Bazı Karakterizasyonlar**
ALTINKAYA A., ÇALIŞKAN M.
14. Ankara Matematik Günleri, Turkey, 28 - 29 June 2019
- IX. **“New Results Of A Curve And Its Natural Lift In DualSpace”**
KARACA E., ÇALIŞKAN M.
International Conference On Applied Analysis And Mathematical Modelling, 10 - 13 March 2019
- X. **Ruled Surface Pair Generated By a Curve and Its Natural Lift in IR³**
ERGÜN E., ÇALIŞKAN M.
7th International Eurasian Conference On Mathematical Sciences Applications, 28 - 31 August 2018
- XI. **Some Characterizations For The Natural Lift Curve In Dual Space**
KARACA E., ÇALIŞKAN M.
7th International Eurasian Conference On Mathematical Sciences and Applications, 28 - 31 August 2018
- XII. **Some Characterizations For The Natural Lift Curve In Dual Lorentzian Space**
KARACA E., ÇALIŞKAN M., PAŞALI ATMACA S.
7th International Eurasian Conference On Mathematical Sciences and Applications, 28 - 31 August 2018

- XIII. **Some Results for the Energy of Directed Graphs**
ALTINKAYA A., BÜYÜKKÖSE Ş., ÇALIŞKAN M.
7th International Eurasian Conference on Mathematical Sciences and Applications, 28 - 31 August 2018
- XIV. **Ruled Surfaces with Striction Scroll in Dual Space**
ÇALIŞKAN M.
16. Uluslararası Geometri Sempozyumu, 4 - 07 July 2018
- XV. **Some Characterizations for Konoidal Ruled Surfaces**
ÇALIŞKAN M.
16. Uluslararası Geometri Sempozyumu, 4 - 07 July 2018
- XVI. **Ruled Surface Pair Generated by The Curve and Its Natural Lift in Dual Space**
KARACA E., ÇALIŞKAN M.
16th Geometry Symposium, 4 - 07 July 2018
- XVII. **Ruled Surface Pair Generated by a Curve and its Natural Lift in IR³**
ERGÜN E., ÇALIŞKAN M.
16th International Geometry Symposium, 4 - 07 July 2018
- XVIII. **On Ruled Surface Pair Generated by Darboux Vectors of a Curve and Its Natural Lift in Dual Space**
ÇALIŞKAN M.
16. Uluslararası Geometri Sempozyumu, 4 - 07 July 2018
- XIX. **Some Characterizations for Ruled Surface Pair Generated by Natural Lift Curve in Dual Space**
KARACA E., ÇALIŞKAN M.
16. Uluslararası Geometri Sempozyumu, 4 - 07 July 2018
- XX. **\bar{M} - Geodesic Spray and \bar{M} - Integral Curve in The Dual Space**
ÇALIŞKAN M.
16. Uluslararası Geometri Sempozyumu, 4 - 07 July 2018
- XXI. **New Results of Ruled Surface Pair Generated By A Curve and Its Natural Lift In Dual Space**
KARACA E., ÇALIŞKAN M.
International Conference On Applied Analysis and Mathematical Modelling, 10 - 13 March 2018
- XXII. **Ruled Surface Pair Generated by Darboux Vectors of a Curve its Natural Lift in IR³**
ERGÜN E., ÇALIŞKAN M., ORBAY K.
6th International Eurasian Conference on Mathematics Sciences and Applications, 15 - 18 August 2017
- XXIII. **Ruled Surface Pair Generated by Darboux Vectors of a Curve and Its Natural Lift in [IR]₁₃**
ERGÜN E., ÇALIŞKAN M., ORBAY K.
6TH INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, 15 - 18 August 2017
- XXIV. **Special Curves in Finsler Space**
ATEŞ F., ÖZDEMİR Z., EKMEKÇİ F. N., ÇALIŞKAN M.
6th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2017), Budapest, Hungary, 15 - 18 August 2017
- XXV. **Ruled Surface Pair Generated By Darboux Vectors of a Curve and Its Natural Lift in IR³**
ERGÜN E., ÇALIŞKAN M.
The 15th International Geometry Symposium, 3 - 06 July 2017
- XXVI. **THE NATURAL LIFT CURVE OF THE SPHERICAL INDICATRIX OF A SPACELIKE CURVE WITH NULL BINORMAL IN MINKOWSKI 3-SPACE**
ÇALIŞKAN M., ERGÜN E., BİLİCİ M.
5th International Eurasian Conference on Mathematical Sciences and Applications, 16 - 19 August 2016
- XXVII. **Geodesic Sprays and Their Applications in Dual Space**
ÇALIŞKAN M., KARACA E.
14th International Geometry Symposium, 25 - 28 May 2016
- XXVIII. **LORENTZ UZAYINDA REGLE YÜZEYLER ÜZERİNE**
ÇALIŞKAN M.
28.Ulusal Matematik Sempozyumu, Turkey, 7 - 09 September 2015

XXIX. MINKOWSKI UZAYINDA SCROLL'xxLER ÜZERİNE

ÇALIŞKAN M.

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

XXX. İki Yüzeyin Teğetsel Arakesit Eğrisinin Jeodezik Burulması Üzerine

UYAR DÜLDÜL B., ÇALIŞKAN M.

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

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