

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

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.BİLİMÇİ(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., Sitraksiyon 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.KORBAY(Student), 2000
- ÇALIŞKAN M., Paralel regle yüzeyler ve bazı karakteristik özellikleri, Doctorate, S.ŞENYURT(Student), 1999
- ÇALIŞKAN M., İnvolut-evolüt eğrilerinin küresel göstergelerinin eğrilikleri ve tabii liftleri, Postgraduate, M.BİLİMÇİ(Student), 1999
- ÇALIŞKAN M., Genelleştirilmiş regle hiperyüzeyler için bazı karakterizasyonlar, Postgraduate, E.ANLI(Student), 1996
- ÇALIŞKAN M., IRn1 minkowski uzayında spacelike doğrultman uzayı genelleştirilmiş time-like regle yüzeyler, Doctorate, M.TOSUN(Student), 1995
- ÇALIŞKAN M., Homotetik hareketlere iştirak eden konodial regle yüzey çeşitleri üzerine, Postgraduate, K.KAKDEMİR(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^+ 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. A Unified Approach: Split Quaternions with Quaternion Coefficients and Quaternions with Dual Coefficients

Karaca E., Yilmaz F., ÇALIŞKAN M.

MATHEMATICS, vol.8, no.12, 2020 (SCI-Expanded)

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 Bundlesof 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 Speherical 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**
SENYURT 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 Speherical 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 ofnatural lift curves and tangent bundle of pseudo-sphere"**
KARACA E., ÇALIŞKAN M.
3rd International Conferenceof 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 İnvolutü 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 IR31**
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. **ℳ- Geodesic Spray and 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 IR13**
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., BİLİMİCİ 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. **MÍNKOWSKI 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

Metrics

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