

Prof.Dr. YUSUF YAYLI

Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Matematik (Dr), Türkiye 1986 - 1989

Yüksek Lisans, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Matematik (Yl) (Tezli), Türkiye 1986 - 1989

Lisans, İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, Türkiye 1979 - 1983

Yaptığı Tezler

Doktora, Hamilton hareketleri ve lie grupları, Gazi Üniversitesi, Kore Dili ve Edebiyatı Anabilim Dalı, Matematik (Dr), 1988

Yüksek Lisans, Cayley formülü üzerine kinematik uygulama, Gazi Üniversitesi, Kore Dili ve Edebiyatı Anabilim Dalı, Matematik (Yl) (Tezli), 1985

Araştırma Alanları

Yaşam Bilimleri, Geometri

Akademik Unvanlar / Görevler

Prof.Dr., Ankara Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2001 - Devam Ediyor

Doç.Dr., Ankara Üniversitesi, Fen Fakültesi, Matematik Bölümü, 1995 - 2001

Yrd.Doç.Dr., Ankara Üniversitesi, Fen Fakültesi, Matematik Bölümü, 1990 - 1995

Akademik İdari Deneyim

Ankara Üniversitesi, 2010 - Devam Ediyor

Verdiği Dersler

81536YARI RİEMANN GEOMETRİSİ, Yüksek Lisans, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001

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Yönetilen Tezler

YAYLI Y., Minimal yüzeylerin Weierstrass gösterimleri ve Björling problemi, Doktora, S.KAYA(Öğrenci), 2021

YAYLI Y., Eğriler üzerinde çatı hareketlerinin geometrik uygulamaları, Doktora, Ö.KESKİN(Öğrenci), 2020

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YAYLI Y., Minkowski uzayında yüzey eğrilerinin Darboux göstergeleri, Yüksek Lisans, G.YAŞAR(Öğrenci), 2019

YAYLI Y., Alt manifoldlarda minimal yüzeyler, Doktora, Ç.RAMİS(Öğrenci), 2019

YAYLI Y., Rektifiyan açılabilir yüzeylerin geometrisi, Yüksek Lisans, Y.SALUR(Öğrenci), 2019

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YAYLI Y., W-eğrilerinin geometrik uygulamaları, Doktora, E.ÖZTÜRK(Öğrenci), 2017

YAYLI Y., Regle yüzeylerin karakterizasyonları, Yüksek Lisans, M.AKSAR(Öğrenci), 2017

YAYLI Y., Kuaterniyonların diferensiyel geometrisi, Doktora, S.ASLAN(Öğrenci), 2017

YAYLI Y., Rektifiyan eğriler ve geometrik uygulamaları, Doktora, B.YILMAZ(Öğrenci), 2016

YAYLI Y., Dual fraktallar ve uygulamaları, Doktora, E.AYBİKE(Öğrenci), 2016

YAYLI Y., Euler-rodrigues formülü ve geometrik uygulamaları, Yüksek Lisans, D.KAHVECİ(Öğrenci), 2016

YAYLI Y., Göz hareketlerinin geometrisi, Yüksek Lisans, A.ÇAY(Öğrenci), 2016

YAYLI Y., Afin diferensiyel geometride eğriler teorisi, Yüksek Lisans, G.CANSU(Öğrenci), 2015

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YAYLI Y., Lorentz-minkowski uzaylarında yüzeylerin arakesit eğrilerinin diferensiyel geometrisi, Doktora, Z.ŞANLI(Öğrenci), 2014

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YAYLI Y., Benzer eğriler ve benzer yüzeylerin geometrisi, Yüksek Lisans, S.KAYA(Öğrenci), 2014

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YAYLI Y., Öklid uzaylarının r-helix alt manifoldları üzerine, Doktora, E.ZIPLAR(Öğrenci), 2013

- YAYLI Y., Sabit eğimli yüzeyler ve uygulamaları, Doktora, M.BABAARSLAN(Öğrenci), 2013
- YAYLI Y., Spiral vektör alanları ve uygulamaları, Doktora, E.BETÜL(Öğrenci), 2012
- YAYLI Y., Genelleştirilmiş kanal yüzeyleri, Doktora, F.DOĞAN(Öğrenci), 2012
- YAYLI Y., The generalized Hamilton operators and Lie groups, Doktora, M.JAFARI(Öğrenci), 2012
- YAYLI Y., Hareket geometrisinde sabit ivmeli eğriler, Doktora, N.ABAZARI(Öğrenci), 2012
- YAYLI Y., Fermi-Walker türevi ve geometrik uygulamaları, Doktora, F.KARAKUŞ(Öğrenci), 2012
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- YAYLI Y., Uzay formlarında genel helisler, Doktora, A.ŞENOL(Öğrenci), 2008
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- YAYLI Y., Lorenz uzayında cebirsel metodlarla kinematik, Doktora, Z.ÜNAL(Öğrenci), 2007
- YAYLI Y., Lineer vektör alanları ve geometrik uygulamaları, Yüksek Lisans, T.YAYLACI(Öğrenci), 2006
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- YAYLI Y., Hareket Lie grupları üzerinde metrikler, Yüksek Lisans, V.KIVANÇ(Öğrenci), 2003
- YAYLI Y., Bölünmüş kuaternyonlar ve geometrik uygulamaları, Doktora, L.KULA(Öğrenci), 2003
- YAYLI Y., Semi oklidiyen uzayda hareketlerin geometrisi, Yüksek Lisans, L.KULA(Öğrenci), 1998
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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **On the dual quaternion geometry of screw motions**
ERİŞİR T., Mumcu G., Klzltuğ S., YAYLI Y.
Analele Stiintifice ale Universitatii Ovidius Constanta, Seria Matematica, cilt.31, sa.3, ss.125-143, 2023 (SCI-Expanded)
- II. **Geometric 3-space and multiplicative quaternions**
Aslan S., BEKAR M., YAYLI Y.
INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, cilt.20, sa.9, 2023 (SCI-Expanded)
- III. **Spherical circles and constant angle surfaces**
Yilmaz B., YAYLI Y.
Revista Mexicana de Fisica, cilt.69, sa.4, 2023 (SCI-Expanded)
- IV. **C*-partner curves with modified adapted frame and their applications**

- Kiziltug S., Erisir T., Mumcu G., YAYLI Y.
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- V. **Curves of stationary acceleration according to alternative frame**
Güven İ. A., ES H., YAYLI Y.
Filomat, cilt.37, sa.26, ss.8887-8896, 2023 (SCI-Expanded)
- VI. **Hyper-dual matrices and dual transformations**
YÜCA G., YAYLI Y.
JOURNAL OF GEOMETRY AND PHYSICS, cilt.175, 2022 (SCI-Expanded)
- VII. **Geometric kinematics of persistent rigid motions in three-dimensional Minkowski space**
Kahveci D., YAYLI Y.
MECHANISM AND MACHINE THEORY, cilt.167, 2022 (SCI-Expanded)
- VIII. **Birotational hypersurface and the second Laplace-Beltrami operator in the four dimensional Euclidean space E-4**
GÜLER E., YAYLI Y., Hacisalihoglu H. H.
TURKISH JOURNAL OF MATHEMATICS, cilt.46, sa.6, ss.2167-2177, 2022 (SCI-Expanded)
- IX. **Ruled surfaces corresponding to hyper-dual curves**
Aslan S., BEKAR M., YAYLI Y.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, cilt.51, sa.1, ss.187-198, 2022 (SCI-Expanded)
- X. **Ruled Surfaces in Minkowski 3-space and Split Quaternion Operators**
Aslan S., BEKAR M., YAYLI Y.
ADVANCES IN APPLIED CLIFFORD ALGEBRAS, cilt.31, sa.5, 2021 (SCI-Expanded)
- XI. **Dual transformations and quaternions**
YÜCA G., YAYLI Y.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, cilt.44, sa.14, ss.10957-10971, 2021 (SCI-Expanded)
- XII. **On calculation of the pitch and angle of pitch of a closed ruled surface of dimension (k+1) using a rotation minimizing frame in Euclidean space Double-struck capital Rn**
Keskin O., ALTIN A., EKMEKCİ F. N., YAYLI Y.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, cilt.44, sa.8, ss.7004-7016, 2021 (SCI-Expanded)
- XIII. **Kinematic modeling of Rytov's law and electromagnetic curves in the optical fiber based on elliptical quaternion algebra**
ÖZDEMİR Z., Cansu G., YAYLI Y.
OPTIK, cilt.230, 2021 (SCI-Expanded)
- XIV. **Ruled surfaces constructed by quaternions**
Aslan S., BEKAR M., YAYLI Y.
JOURNAL OF GEOMETRY AND PHYSICS, cilt.161, 2021 (SCI-Expanded)
- XV. **A New Quaternion Valued Frame of Curves with an Application**
Cansu G., YAYLI Y., GÖK İ.
FILOMAT, cilt.35, sa.1, ss.315-330, 2021 (SCI-Expanded)
- XVI. **NORMAL DIRECTION CURVES AND APPLICATIONS**
KIZILTUĞ S., Onder M., YAYLI Y.
MISKOLC MATHEMATICAL NOTES, cilt.22, sa.1, ss.363-374, 2021 (SCI-Expanded)
- XVII. **Rotation minimizing frames and quaternionic rectifying curves**
Keskin Ö., YAYLI Y.
Analele Stiintifice ale Universitatii Al I Cuza din Iasi - Matematica, cilt.67, sa.1, ss.19-29, 2021 (SCI-Expanded)
- XVIII. **Hyper-dual split quaternions and rigid body motion**
Aslan S., BEKAR M., YAYLI Y.
JOURNAL OF GEOMETRY AND PHYSICS, cilt.158, 2020 (SCI-Expanded)
- XIX. **A natural Frenet frame for null curves on the lightlike cone in Minkowski space R24**
Abazari N., Bohner M., Sager I., Sedaghatdoost A., YAYLI Y.
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- XX. **Flat Rotational Surfaces with Pointwise 1-Type Gauss Map Via Generalized Quaternions**

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 PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES INDIA SECTION A-PHYSICAL SCIENCES, cilt.90, sa.2, ss.251-257, 2020 (SCI-Expanded)
- XXI. **Characterizations of dual curves and dual focal curves in dual Lorentzian space D-1(3)**
 Gilani S. M., Abazari N., YAYLI Y.
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- XXII. **Persistent rigid-body motions on slant helices**
 Kahveci D., YAYLI Y.
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- XXIII. **Involutions in split semi-quaternions**
 BEKAR M., YAYLI Y.
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- XXIV. **Dual Transformation Between $S(O)\overline{\cap}(3)$ and $S(O)\overline{\cap}(2,1)$ and Its Geometric Applications**
 YÜCA G., YAYLI Y.
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- XXV. **Eikonal Helices and Harmonic Curvatures in Riemannian Manifolds**
 Ziplar E., YAYLI Y.
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- XXVI. **The Fermi-Walker Derivative and Non-rotating Frame in Dual Space**
 ŞAHİN T., KARAKUŞ F., YAYLI Y.
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- XXVII. **Some variations of dual Euler-Rodrigues formula with an application to point-line geometry**
 Kahveci D., GÖK İ., YAYLI Y.
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- XXVIII. **A study of the tubular surfaces constructed by the spherical indicatrices in Euclidean 3-space**
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- XXIX. **A New Aspect of Rectifying Curves and Ruled Surfaces in Galilean 3-Space**
 ÇETİN E. D., GÖK İ., YAYLI Y.
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- XXX. **Some new types of associated curves in Euclidean 3-space**
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- XXXI. **Quaternionic Shape Operator**
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- XXXII. **An application of N-Bishop frame to spherical images for direction curves**
 Keskin O., YAYLI Y.
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- XXXIII. **Generalized Fermi-Walker derivative and non-rotating frame**
 UÇAR A., KARAKUŞ F., YAYLI Y.
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- XXXIV. **A New Polar Representation for Split and Dual Split Quaternions**
 Atasoy A., ATA E., YAYLI Y., Kemer Y.
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- XXXV. **N-Legendre and N-Slant curves in the unit tangent bundle of surfaces**
 Hathout F., Bekar M., YAYLI Y.

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- XXXVI. **The Fermi-Walker Derivative in Minkowski Space**
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- XXXVII. **A New Representation of Canal Surfaces with Split Quaternions in Minkowski 3-Space**
Kocakusakli E., Tuncer O. O., GÖK İ., YAYLI Y.
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- XXXVIII. **Lie Algebra of Unit Tangent Bundle**
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- XXXIX. **BERTRAND CURVES IN THREE DIMENSIONAL LIE GROUPS**
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- XL. **The relation between parameter curves and lines of curvature on canal surfaces**
Dogan F., YAYLI Y.
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- XLI. **Generalized constant ratio surfaces and quaternions**
Aslan S., YAYLI Y.
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- XLII. **On space-like constant slope surfaces and bertrand curves in minkowski 3-space**
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- XLIII. **Stationary acceleration of Frenet curves**
Abazari N., Bohner M., Sager I., YAYLI Y.
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- XLIV. **DEVELOPABLE CURVE-SURFACE PAIR AND SPHERICAL REPRESENTATIONS BY BISHOP FRAME**
Kaya F. E., YAYLI Y.
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- XLV. **The geometrical and algebraic interpretations of Euler-Rodrigues formula in Minkowski 3-space**
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- XLVI. **Semi-Euclidean quasi-elliptic planar motion**
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- XLVII. **Extended Rectifying Curves in Minkowski 3-Space**
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- XLVIII. **The Fermi-Walker Derivative on the Spherical Indicatrix of Spacelike Curve in Minkowski 3-Space**
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- L. **Involutions in Dual Split-Quaternions**
Bekar M., YAYLI Y.
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- LI. **The Fermi-Walker Derivative on the Spherical Indicatrix of Timelike Curve in Minkowski 3-Space**
KARAKUŞ F., YAYLI Y.
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- III. **Spherical curves and Quaternionic Helices**
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- VI. **Structure and Characterization of Parallel Ruled Surfaces in Euclidean 3-Space**
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- XVII. **Geometry of Fractal structures in Galilean Plane**
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