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Kişisel Bilgiler

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Publons / Web Of Science ResearcherID: EHD-4688-2022

ScopusID: 6602500102

Yoksis Araştırmacı ID: 6623

Eğitim Bilgileri

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

Yüksek Lisans, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Matematik (YI) (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 (YI) (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

MYO Müdürü, Ankara Üniversitesi, Kızılcahamam Sağlık Hizmetleri Meslek Yüksekokulu, 2022 - Devam Ediyor

Ankara Üniversitesi, 2010 - Devam Ediyor

verdiği Dersler

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Yönetilen Tezler

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

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

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Z.ŞANLI(Öğrenci), 2014
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YAYLI Y., Ph eğrileri ve uygulamaları, Yüksek Lisans, Ç.RAMİS(Öğrenci), 2014
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YAYLI Y., The generalized Hamilton operators and Lie groups, Doktora, M.JAFARİ(Öğrenci), 2012
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YAYLI Y., 3-boyutlu Minkowski uzayında light-like üreteç eğrili time-like helisoidal ve dönele yüzeyler, Doktora, E.GÜLER(Öğrenci), 2010
YAYLI Y., Minkowski uzayında sabit ortalama eğrilikli dönele yüzeyler, Yüksek Lisans, F.KAHRAMAN(Öğrenci), 2010
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YAYLI Y., Kuaterniyonlar, oktanyonlar ve uygulamaları, Yüksek Lisans, B.BÜKCÜ(Öğrenci), 1994

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

1. REPRESENTATION OF GENERALIZED CIRCULAR SURFACES AS RIGID BODY MOTIONS
Aslan S., BEKAR M., YAYLI Y.

Miskolc Mathematical Notes, cilt.25, sa.1, ss.79-91, 2024 (SCI-Expanded)

- II. **On the dual quaternion geometry of screw motions**
ERİŞİR T., Mumcu G., Kızıltuğ S., YAYLI Y.
Analele Stiintifice ale Universitatii Ovidius Constanta, Seria Matematica, cilt.31, sa.3, ss.125-143, 2023 (SCI-Expanded)
- III. **Geometric 3-space and multiplicative quaternions**
Aslan S., Bekar M., Yaylı Y.
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- IV. **Spherical circles and constant angle surfaces**
Yilmaz B., YAYLI Y.
Revista Mexicana de Fisica, cilt.69, sa.4, 2023 (SCI-Expanded)
- 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. **C*-partner curves with modified adapted frame and their applications**
Kiziltug S., Erisir T., Mumcu G., Yaylı Y.
AIMS MATHEMATICS, cilt.8, sa.1, ss.1345-1359, 2023 (SCI-Expanded)
- VII. **Hyper-dual matrices and dual transformations**
YÜCA G., YAYLI Y.
JOURNAL OF GEOMETRY AND PHYSICS, cilt.175, 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. **Geometric kinematics of persistent rigid motions in three-dimensional Minkowski space**
Kahveci D., Yaylı Y.
MECHANISM AND MACHINE THEORY, cilt.167, 2022 (SCI-Expanded)
- XI. **Pairwise comparisons matrix decomposition into approximation and orthogonal component using Lie theory**
Koczkodaj W. W., Marek V. W., Yaylı Y.
INTERNATIONAL JOURNAL OF APPROXIMATE REASONING, cilt.139, ss.201-210, 2021 (SCI-Expanded)
- XII. **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)
- XIII. **Legendre Curves and the Singularities of Ruled Surfaces Obtained by Using Rotation Minimizing Frame**
BEKAR M., Hathout F., YAYLI Y.
Ukrainian Mathematical Journal, cilt.73, sa.5, ss.686-700, 2021 (SCI-Expanded)
- XIV. **Dual transformations and quaternions**
YÜCA G., YAYLI Y.
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- XV. **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., EKMEKÇİ F. N., YAYLI Y.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, cilt.44, sa.8, ss.7004-7016, 2021 (SCI-Expanded)
- XVI. **Ruled surfaces constructed by quaternions**
Aslan S., BEKAR M., YAYLI Y.
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- XVII. Kinematic modeling of Rytov's law and electromagnetic curves in the optical fiber based on elliptical quaternion algebra**
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- XVIII. A New Quaternion Valued Frame of Curves with an Application**
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 FILOMAT, cilt.35, sa.1, ss.315-330, 2021 (SCI-Expanded)
- XIX. NORMAL DIRECTION CURVES AND APPLICATIONS**
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- XX. Rotation minimizing frames and quaternionic rectifying curves**
 Keskin Ö., YAYLI Y.
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- XXI. Hyper-dual split quaternions and rigid body motion**
 Aslan S., BEKAR M., YAYLI Y.
 JOURNAL OF GEOMETRY AND PHYSICS, cilt.158, 2020 (SCI-Expanded)
- XXII. A natural Frenet frame for null curves on the lightlike cone in Minkowski space $R^{2,4}$**
 Abazari N., Bohner M., Sager I., Sedaghatdoost A., YAYLI Y.
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- XXIII. On the use of group theory to generalize elements of pairwise comparisons matrix: A cautionary note**
 Koczkodaj W. W., Liu F., Marek V. W., Mazurek J., Mazurek M., Mikhailov L., Ozel C., Pedrycz W., Przelaskowski A., Schumann A., et al.
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- XXIV. Flat Rotational Surfaces with Pointwise 1-Type Gauss Map Via Generalized Quaternions**
 AKSOYAK F. K., YAYLI Y.
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- XXV. Characterizations of dual curves and dual focal curves in dual Lorentzian space $D-1(3)$**
 Gilani S. M., Abazari N., YAYLI Y.
 TURKISH JOURNAL OF MATHEMATICS, cilt.44, sa.5, ss.1561-1577, 2020 (SCI-Expanded)
- XXVI. Persistent rigid-body motions on slant helices**
 Kahveci D., YAYLI Y.
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- XXVII. Involutions in split semi-quaternions**
 BEKAR M., YAYLI Y.
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- XXVIII. Circular Surfaces with Split Quaternionic Representations in Minkowski 3-space**
 TUNCER O. O., Canakci Z., GÖK İ., Yayh Y.
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- XXIX. Eikonal Helices and Harmonic Curvatures in Riemannian Manifolds**
 Ziplar E., YAYLI Y.
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- XXX. Dual Transformation Between $S(O)$ over-cap(3) and $S(O)$ over-cap (2,1) and Its Geometric Applications**
 YÜCA G., YAYLI Y.
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- XXXI. The Fermi-Walker Derivative and Non-rotating Frame in Dual Space**
 ŞAHİN T., KARAKUŞ F., YAYLI Y.

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- XXXII. **Some variations of dual Euler-Rodrigues formula with an application to point-line geometry**
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- XXXIII. **Some new types of associated curves in Euclidean 3-space**
Ozdogan S., TUNCER O. O., GÖK İ., YAYLI Y.
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- XXXIV. **A New Aspect of Rectifying Curves and Ruled Surfaces in Galilean 3-Space**
ÇETİN E. D., GÖK İ., YAYLI Y.
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ATEŞ F., Kocakusakli E., GÖK İ., YAYLI Y.
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- XXXVI. **Quaternionic Shape Operator**
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ADVANCES IN APPLIED CLIFFORD ALGEBRAS, cilt.27, sa.4, ss.2921-2931, 2017 (SCI-Expanded)
- XXXVII. **An application of N-Bishop frame to spherical images for direction curves**
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- XXXIX. **Generalized Fermi-Walker derivative and non-rotating frame**
UÇAR A., KARAKUŞ F., YAYLI Y.
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- XL. **N-Legendre and N-Slant curves in the unit tangent bundle of surfaces**
Hathout F., Bekar M., YAYLI Y.
KUWAIT JOURNAL OF SCIENCE, cilt.44, sa.3, ss.28-33, 2017 (SCI-Expanded)
- XLI. **Lie Algebra of Unit Tangent Bundle**
Bekar M., YAYLI Y.
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- XLII. **The Fermi-Walker Derivative in Minkowski Space**
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- XLIII. **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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- XLIV. **DEVELOPABLE CURVE-SURFACE PAIR AND SPHERICAL REPRESENTATIONS BY BISHOP FRAME**
Kaya F. E., YAYLI Y.
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- XLV. **Generalized constant ratio surfaces and quaternions**
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- XLVI. **The relation between parameter curves and lines of curvature on canal surfaces**
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- XLVII. **BERTRAND CURVES IN THREE DIMENSIONAL LIE GROUPS**
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Yayın: 285

Atf (WoS): 710

Atf (Scopus): 897

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