

## 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 (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

Ankara Üniversitesi, 2010 - Devam Ediyor

### Verdiği Dersler

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## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **On the dual quaternion geometry of screw motions**  
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- II. **Geometric 3-space and multiplicative quaternions**  
Aslan S., BEKAR M., YAYLI Y.  
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- III. **Spherical circles and constant angle surfaces**  
Yılmaz B., YAYLI Y.  
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- IV. **C\*-partner curves with modified adapted frame and their applications**

- Kiziltug S., Erisir T., Mumcu G., YAYLI Y.  
AIMS MATHEMATICS, cilt.8, sa.1, ss.1345-1359, 2023 (SCI-Expanded)
- V. **Curves of stationary acceleration according to alternative frame**  
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- VI. **Hyper-dual matrices and dual transformations**  
YÜCA G., YAYLI Y.  
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- VII. **Geometric kinematics of persistent rigid motions in three-dimensional Minkowski space**  
Kahveci D., YAYLI Y.  
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- VIII. **Birotational hypersurface and the second Laplace-Beltrami operator in the four dimensional Euclidean space E-4**  
GÜLER E., YAYLI Y., Hacisalihoglu H. H.  
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- IX. **Ruled surfaces corresponding to hyper-dual curves**  
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- X. **Ruled Surfaces in Minkowski 3-space and Split Quaternion Operators**  
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- XI. **Dual transformations and quaternions**  
YÜCA G., YAYLI Y.  
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- 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  $R_n$**   
Keskin O., ALTIN A., EKMEKÇİ F. N., YAYLI Y.  
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- XIII. **Kinematic modeling of Rytov's law and electromagnetic curves in the optical fiber based on elliptical quaternion algebra**  
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- XIV. **Ruled surfaces constructed by quaternions**  
Aslan S., BEKAR M., YAYLI Y.  
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- XV. **A New Quaternion Valued Frame of Curves with an Application**  
Cansu G., YAYLI Y., GÖK İ.  
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- XVI. **NORMAL DIRECTION CURVES AND APPLICATIONS**  
KIZILTUĞ S., Onder M., YAYLI Y.  
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- XVII. **Rotation minimizing frames and quaternionic rectifying curves**  
Keskin Ö., YAYLI Y.  
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- XVIII. **Hyper-dual split quaternions and rigid body motion**  
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- XIX. **A natural Frenet frame for null curves on the lightlike cone in Minkowski space  $R^{2,4}$**   
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- XX. **Flat Rotational Surfaces with Pointwise 1-Type Gauss Map Via Generalized Quaternions**

AKSOYAK F. K., YAYLI Y.

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- XXI. **Characterizations of dual curves and dual focal curves in dual Lorentzian space  $D-1(3)$**   
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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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YÜCA G., YAYLI Y.  
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- XXV. **Eikonal Helices and Harmonic Curvatures in Riemannian Manifolds**  
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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**  
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- XXVIII. **A study of the tubular surfaces constructed by the spherical indicatrices in Euclidean 3-space**  
ATEŞ F., Kocakusakli E., GÖK İ., YAYLI Y.  
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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**  
Aslan S., YAYLI Y.  
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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**  
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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.

- KUWAIT JOURNAL OF SCIENCE, cilt.44, sa.3, ss.28-33, 2017 (SCI-Expanded)
- XXXVI. **The Fermi-Walker Derivative in Minkowski Space**  
KARAKUŞ F., YAYLI Y.  
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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**  
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- XLI. **Generalized constant ratio surfaces and quaternions**  
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- XLII. **On space-like constant slope surfaces and bertrand curves in minkowski 3-space**  
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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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- XLIX. **On the Surface the Fermi-Walker Derivative in Minkowski 3-Space**  
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- II. **A Study on Complexified Semi-Quaternions**  
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- III. **Spherical curves and Quaternionic Helices**  
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- IV. **Semi-Quaternions and Unit Tangent Bundle of Euclidean 3-Space**  
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- VI. **Structure and Characterization of Parallel Ruled Surfaces in Euclidean 3-Space**  
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- VII. **A new approach on Roller Coaster surfaces with an alternative moving frame**  
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