

## Prof. YUSUF YAYLI

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 1986 - 1989

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), Turkey 1986 - 1989

Undergraduate, Inonu University, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 1979 - 1983

### Dissertations

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

Postgraduate, Cayley formülü üzerine kinematik uygulama, Gazi University, Kore Dili ve Edebiyatı Anabilim Dalı, Matematik (YI) (Tezli), 1985

### Research Areas

Life Sciences, Geometry

### Academic Titles / Tasks

Professor, Ankara University, Fen Fakültesi, Matematik Bölümü, 2001 - Continues

Associate Professor, Ankara University, Fen Fakültesi, Matematik Bölümü, 1995 - 2001

Assistant Professor, Ankara University, Fen Fakültesi, Matematik Bölümü, 1990 - 1995

### Academic and Administrative Experience

Ankara University, 2010 - Continues

### Courses

81536YARI RIEMANN GEOMETRİSİ, Postgraduate, 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

M207ANALİTİK GEOMETRİ I, Undergraduate, 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  
M485KİNEMATİK, Undergraduate, 2013 - 2014  
M208ANALİTİK GEOMETRİ II, Undergraduate, 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  
M486KİNEMATİK, Undergraduate, 2013 - 2014, 2012 - 2013  
M473DÖNÜŞÜMLER VE GEOMETRİLER, Undergraduate, 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  
815585İLERİ PROJektİF GEOMETRİ, Postgraduate, 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  
M358DİFERENSİYEL GEOMETRİ, Undergraduate, 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  
81535YARI RIEMANN GEOMETRİSİ, Postgraduate, 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  
815586İLERİ PROJektİF GEOMETRİ, Postgraduate, 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  
M474DÖNÜŞÜMLER VE GEOMETRİLER, Undergraduate, 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  
M357DİFERENSİYEL GEOMETRİ, Undergraduate, 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

## Advising Theses

YAYLI Y., Weierstrass representations of minimal surfaces and the Björling problem, Doctorate, S.KAYA(Student), 2021  
YAYLI Y., The geometric applications of frame motions on curves, Doctorate, Ö.KESKİN(Student), 2020  
YAYLI Y., Geometric applications of Salkowski curves, Postgraduate, A.Genç(Student), 2020  
YAYLI Y., Geometric applications of Salkowski curves, Postgraduate, A.GENÇ(Student), 2020  
YAYLI Y., Darboux indicatrices of surface curves on the Minkowski space, Postgraduate, G.YAŞAR(Student), 2019  
YAYLI Y., Alt manifoldlarda minimal yüzeyler, Doctorate, Ç.RAMİS(Student), 2019  
YAYLI Y., The geometry of rectifying developable surface, Postgraduate, Y.SALUR(Student), 2019  
YAYLI Y., Geometry of singular points of spherical curves, Postgraduate, B.ÇİÇEKDAL(Student), 2018  
YAYLI Y., W-eğrilerinin geometrik uygulamaları, Doctorate, E.ÖZTÜRK(Student), 2017  
YAYLI Y., Regle yüzeylerin karakterizasyonları, Postgraduate, M.AKSAR(Student), 2017  
YAYLI Y., Kuaterniyonların diferensiyel geometrisi, Doctorate, S.ASLAN(Student), 2017  
YAYLI Y., Rektifiyan eğriler ve geometrik uygulamaları, Doctorate, B.YILMAZ(Student), 2016  
YAYLI Y., Dual fraktallar ve uygulamaları, Doctorate, E.AYBİKE(Student), 2016  
YAYLI Y., Euler-Rodrigues formula and its geometric applications, Postgraduate, D.KAHVECİ(Student), 2016  
YAYLI Y., Geometry of eye movements, Postgraduate, A.ÇAY(Student), 2016  
YAYLI Y., Afin diferensiyel geometride eğriler teorisi, Postgraduate, G.CANSU(Student), 2015  
YAYLI Y., Kuaterniyonların involüsyonları ve anti\_involüsyonları, Doctorate, M.BEKAR(Student), 2014  
YAYLI Y., Lorentz-minkowski uzaylarında yüzeylerin arakesit eğrilerinin diferensiyel geometrisi, Doctorate, Z.ŞANLI(Student), 2014  
YAYLI Y., Öklidiyen ve yarı öklidiyen uzaylarda homotetik hareketler ve yüzeyler, Doctorate, F.KAHRAMAN(Student), 2014  
YAYLI Y., Benzer eğriler ve benzer yüzeylerin geometrisi, Postgraduate, S.KAYA(Student), 2014  
YAYLI Y., Altın manifoldlar ve alt manifoldlarının geometrisi, Doctorate, E.HATİCE(Student), 2014  
YAYLI Y., Ph eğrileri ve uygulamaları, Postgraduate, Ç.RAMİS(Student), 2014  
YAYLI Y., Dual uzaylarda dual dönüşümler ve geometrik uygulamaları, Doctorate, G.YÜCA(Student), 2014

YAYLI Y., Lorentz uzayında hareketler ve sabit eğrilikli yüzeyler, Doctorate, E.DEMİR(Student), 2014  
YAYLI Y., Kuaterniyonlar ve interpolasyonlar, Doctorate, R.GHADAMI(Student), 2013  
YAYLI Y., Öklid uzaylarının r-helis alt manifoldları üzerine, Doctorate, E.ZIPLAR(Student), 2013  
YAYLI Y., Sabit eğimli yüzeyler ve uygulamaları, Doctorate, M.BABAARSLAN(Student), 2013  
YAYLI Y., Spiral vektör alanları ve uygulamaları, Doctorate, E.BETÜL(Student), 2012  
YAYLI Y., Genelleştirilmiş kanal yüzeyleri, Doctorate, F.DOĞAN(Student), 2012  
YAYLI Y., The generalized Hamilton operators and Lie groups, Doctorate, M.JAFARİ(Student), 2012  
YAYLI Y., Hareket geometrisinde sabit ivmeli eğriler, Doctorate, N.ABAZARİ(Student), 2012  
YAYLI Y., Fermi-Walker türevi ve geometrik uygulamaları, Doctorate, F.KARAKUŞ(Student), 2012  
YAYLI Y., Frenet hareketleri ve yüzeyler, Doctorate, N.MASROURİ(Student), 2012  
YAYLI Y., Küresel konikler ve uygulamaları, Doctorate, B.ALTUNKAYA(Student), 2012  
YAYLI Y., Genelleştirilmiş Hamilton operatörleri ve Lie grupları, M.JAFARİ(Student), 2012  
YAYLI Y., Dual dönüşümler ve geometrik uygulamaları, Postgraduate, G.BİÇER(Student), 2011  
YAYLI Y., Lorentz uzayında umbilik yüzeyler, Postgraduate, E.DEMİR(Student), 2010  
YAYLI Y., Tensör çarpım yüzeyleri ve Lie grupları, Doctorate, S.ÖZKALDI(Student), 2010  
YAYLI Y., 3-boyutlu Minkowski uzayında light-like üreteç eğrili time-like helisoidal ve dönel yüzeyler, Doctorate, E.GÜLER(Student), 2010  
YAYLI Y., Minkowski uzayında sabit ortalama eğrilikli dönel yüzeyler, Postgraduate, F.KAHRAMAN(Student), 2010  
YAYLI Y., Uzayda helis eğrilerinin üretilmesi, Postgraduate, R.GHADAMİ(Student), 2010  
YAYLI Y., Altın diferensiyel geometri, Postgraduate, E.HATİCE(Student), 2010  
YAYLI Y., Lie grupları üzerinde invariant metrikler, Postgraduate, F.DOĞAN(Student), 2009  
YAYLI Y., Galile uzaylarında hareketlerin geometrisi, Doctorate, E.ESİN(Student), 2009  
YAYLI Y., Homotetik hareketler ve uygulamaları, Postgraduate, E.BETÜL(Student), 2009  
YAYLI Y., Uzay formlarında genel helisler, Doctorate, A.ŞENOL(Student), 2008  
YAYLI Y., Lorentz uzay hareketleri ve lie grupları, Postgraduate, Ö.HAKAN(Student), 2007  
YAYLI Y., Lorenz uzayında cebirsel metotlarla kinematik, Doctorate, Z.ÜNAL(Student), 2007  
YAYLI Y., Lineer vektör alanları ve geometrik uygulamaları, Postgraduate, T.YAYLACI(Student), 2006  
YAYLI Y., Genelleştirilmiş kuaterniyonlar ve uygulamaları, Postgraduate, O.ÖLMEZ(Student), 2006  
YAYLI Y., Özel eğriler ve regle yüzeyler, Postgraduate, İ.ÖNCÜ(Student), 2005  
YAYLI Y., Öteleme yüzeyleri üzerine, Postgraduate, Ö.AKSOY(Student), 2005  
YAYLI Y., İki parametrelili hareketlerin kinematik uygulamaları, Doctorate, M.KEMAL(Student), 2004  
YAYLI Y., Lorentz uzayında Cayley formülü ve uygulamaları, Doctorate, B.BÜKCÜ(Student), 2003  
YAYLI Y., Hareket Lie grupları üzerinde metrikler, Postgraduate, V.KIVANÇ(Student), 2003  
YAYLI Y., Bölünmüş kuaterniyonlar ve geometrik uygulamaları, Doctorate, L.KULA(Student), 2003  
YAYLI Y., Semi oklidiyen uzayda hareketlerin geometrisi, Postgraduate, L.KULA(Student), 1998  
YAYLI Y., Hiperbolik kompleks sayılar ve geometrik uygulamaları, Postgraduate, M.ADIVAR(Student), 1998  
YAYLI Y., Küresel hareketler, Postgraduate, E.UÇAR(Student), 1997  
YAYLI Y., Riemann manifoldu, Postgraduate, Ş.ZARARSIZ(Student), 1996  
YAYLI Y., Kuaterniyonlar, oktanyonlar ve uygulamaları, Postgraduate, B.BÜKCÜ(Student), 1994

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **On the dual quaternion geometry of screw motions**  
ERİŞİR T., Mumcu G., Klzlltuğ S., YAYLI Y.  
Analele Stiintifice ale Universitatii Ovidius Constanta, Seria Matematica, vol.31, no.3, pp.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, vol.20, no.9, 2023 (SCI-Expanded)
- III. **Spherical circles and constant angle surfaces**

- Yilmaz B., YAYLI Y.  
Revista Mexicana de Fisica, vol.69, no.4, 2023 (SCI-Expanded)
- IV. **C\*-partner curves with modified adapted frame and their applications**  
Kiziltug S., Erisir T., Mumcu G., YAYLI Y.  
AIMS MATHEMATICS, vol.8, no.1, pp.1345-1359, 2023 (SCI-Expanded)
- V. **Curves of stationary acceleration according to alternative frame**  
Güven İ. A., ES H., YAYLI Y.  
Filomat, vol.37, no.26, pp.8887-8896, 2023 (SCI-Expanded)
- VI. **Hyper-dual matrices and dual transformations**  
YÜCA G., YAYLI Y.  
JOURNAL OF GEOMETRY AND PHYSICS, vol.175, 2022 (SCI-Expanded)
- VII. **Geometric kinematics of persistent rigid motions in three-dimensional Minkowski space**  
Kahveci D., YAYLI Y.  
MECHANISM AND MACHINE THEORY, vol.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, vol.46, no.6, pp.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, vol.51, no.1, pp.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, vol.31, no.5, 2021 (SCI-Expanded)
- XI. **Dual transformations and quaternions**  
YÜCA G., YAYLI Y.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.44, no.14, pp.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., EKMEKÇİ F. N., YAYLI Y.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.44, no.8, pp.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.  
OPTİK, vol.230, 2021 (SCI-Expanded)
- XIV. **Ruled surfaces constructed by quaternions**  
Aslan S., BEKAR M., YAYLI Y.  
JOURNAL OF GEOMETRY AND PHYSICS, vol.161, 2021 (SCI-Expanded)
- XV. **A New Quaternion Valued Frame of Curves with an Application**  
Cansu G., YAYLI Y., GÖK İ.  
FILOMAT, vol.35, no.1, pp.315-330, 2021 (SCI-Expanded)
- XVI. **NORMAL DIRECTION CURVES AND APPLICATIONS**  
KIZILTUĞ S., Onder M., YAYLI Y.  
MISKOLC MATHEMATICAL NOTES, vol.22, no.1, pp.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, vol.67, no.1, pp.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, vol.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.  
 JOURNAL OF INEQUALITIES AND APPLICATIONS, vol.2020, no.1, 2020 (SCI-Expanded)
- XX. **Flat Rotational Surfaces with Pointwise 1-Type Gauss Map Via Generalized Quaternions**  
 AKSOYAK F. K., YAYLI Y.  
 PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES INDIA SECTION A-PHYSICAL SCIENCES, vol.90, no.2,  
 pp.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.  
 TURKISH JOURNAL OF MATHEMATICS, vol.44, no.5, pp.1561-1577, 2020 (SCI-Expanded)
- XXII. **Persistent rigid-body motions on slant helices**  
 Kahveci D., YAYLI Y.  
 INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, vol.16, no.12, 2019 (SCI-Expanded)
- XXIII. **Involutions in split semi-quaternions**  
 BEKAR M., YAYLI Y.  
 MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.41, no.12, pp.4491-4505, 2018 (SCI-Expanded)
- XXIV. **Dual Transformation Between  $S(O)\text{over-cap}(3)$  and  $S(O)\text{over-cap}(2,1)$  and Its Geometric Applications**  
 YÜCA G., YAYLI Y.  
 PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES INDIA SECTION A-PHYSICAL SCIENCES, vol.88, no.2,  
 pp.267-273, 2018 (SCI-Expanded)
- XXV. **Eikonal Helices and Harmonic Curvatures in Riemannian Manifolds**  
 Ziplar E., YAYLI Y.  
 IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE, vol.42, no.A2, pp.753-761, 2018  
 (SCI-Expanded)
- XXVI. **The Fermi-Walker Derivative and Non-rotating Frame in Dual Space**  
 ŞAHİN T., KARAKUŞ F., YAYLI Y.  
 ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.28, no.1, 2018 (SCI-Expanded)
- XXVII. **Some variations of dual Euler-Rodrigues formula with an application to point-line geometry**  
 Kahveci D., GÖK İ., YAYLI Y.  
 JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.459, no.2, pp.1029-1039, 2018 (SCI-Expanded)
- XXVIII. **A study of the tubular surfaces constructed by the spherical indicatrices in Euclidean 3-space**  
 ATEŞ F., Kocakusakli E., GÖK İ., YAYLI Y.  
 TURKISH JOURNAL OF MATHEMATICS, vol.42, no.4, pp.1711-1725, 2018 (SCI-Expanded)
- XXIX. **A New Aspect of Rectifying Curves and Ruled Surfaces in Galilean 3-Space**  
 ÇETİN E. D., GÖK İ., YAYLI Y.  
 FILOMAT, vol.32, no.8, pp.2953-2962, 2018 (SCI-Expanded)
- XXX. **Some new types of associated curves in Euclidean 3-space**  
 Ozdogan S., TUNCER O. O., GÖK İ., YAYLI Y.  
 ANALELE STIINTIFICE ALE UNIVERSITATII OVIDIUS CONSTANTA-SERIA MATEMATICA, vol.26, no.1, pp.205-221,  
 2018 (SCI-Expanded)
- XXXI. **Quaternionic Shape Operator**  
 Aslan S., YAYLI Y.  
 ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.27, no.4, pp.2921-2931, 2017 (SCI-Expanded)
- XXXII. **An application of N-Bishop frame to spherical images for direction curves**  
 Keskin O., YAYLI Y.  
 INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, vol.14, no.11, 2017 (SCI-Expanded)
- XXXIII. **Generalized Fermi-Walker derivative and non-rotating frame**  
 UÇAR A., KARAKUŞ F., YAYLI Y.  
 INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, vol.14, no.9, 2017 (SCI-Expanded)
- XXXIV. **A New Polar Representation for Split and Dual Split Quaternions**  
 Atasoy A., ATA E., YAYLI Y., Kemer Y.

- ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.27, no.3, pp.2307-2319, 2017 (SCI-Expanded)
- XXXV. **N-Legendre and N-Slant curves in the unit tangent bundle of surfaces**  
Hathout F., Bekar M., YAYLI Y.  
KUWAIT JOURNAL OF SCIENCE, vol.44, no.3, pp.28-33, 2017 (SCI-Expanded)
- XXXVI. **The Fermi-Walker Derivative in Minkowski Space**  
KARAKUŞ F., YAYLI Y.  
ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.27, no.2, pp.1353-1368, 2017 (SCI-Expanded)
- XXXVII. **A New Representation of Canal Surfaces with Split Quaternions in Minkowski 3-Space**  
Kocakusaki E., Tuncer O. O., GÖK İ., YAYLI Y.  
ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.27, no.2, pp.1387-1409, 2017 (SCI-Expanded)
- XXXVIII. **Lie Algebra of Unit Tangent Bundle**  
Bekar M., YAYLI Y.  
ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.27, no.2, pp.965-975, 2017 (SCI-Expanded)
- XXXIX. **BERTRAND CURVES IN THREE DIMENSIONAL LIE GROUPS**  
Okuyucu O. Z., GÖK İ., YAYLI Y., Ekmekci N.  
MISKOLC MATHEMATICAL NOTES, vol.17, no.2, pp.999-1010, 2017 (SCI-Expanded)
- XL. **The relation between parameter curves and lines of curvature on canal surfaces**  
Dogan F., YAYLI Y.  
KUWAIT JOURNAL OF SCIENCE, vol.44, no.1, pp.29-35, 2017 (SCI-Expanded)
- XLI. **Generalized constant ratio surfaces and quaternions**  
Aslan S., YAYLI Y.  
KUWAIT JOURNAL OF SCIENCE, vol.44, no.1, pp.42-47, 2017 (SCI-Expanded)
- XLII. **On space-like constant slope surfaces and bertrand curves in minkowski 3-space**  
BABAARSLAN M., YAYLI Y.  
Analele Stiintifice ale Universitatii Al I Cuza din Iasi - Matematica, vol.63, no.F2, pp.323-339, 2017 (SCI-Expanded)
- XLIII. **Stationary acceleration of Frenet curves**  
Abazari N., Bohner M., Sager I., YAYLI Y.  
JOURNAL OF INEQUALITIES AND APPLICATIONS, vol.2017, 2017 (SCI-Expanded)
- XLIV. **DEVELOPABLE CURVE-SURFACE PAIR AND SPHERICAL REPRESENTATIONS BY BISHOP FRAME**  
Kaya F. E., YAYLI Y.  
APPLIED AND COMPUTATIONAL MATHEMATICS, vol.16, no.3, pp.228-239, 2017 (SCI-Expanded)
- XLV. **The geometrical and algebraic interpretations of Euler-Rodrigues formula in Minkowski 3-space**  
Kahveci D., YAYLI Y., GÖK İ.  
INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, vol.13, no.10, 2016 (SCI-Expanded)
- XLVI. **Semi-Euclidean quasi-elliptic planar motion**  
Bekar M., YAYLI Y.  
INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, vol.13, no.7, 2016 (SCI-Expanded)
- XLVII. **Extended Rectifying Curves in Minkowski 3-Space**  
Yilmaz B., GÖK İ., YAYLI Y.  
ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.26, no.2, pp.861-872, 2016 (SCI-Expanded)
- XLVIII. **The Fermi-Walker Derivative on the Spherical Indicatrix of Spacelike Curve in Minkowski 3-Space**  
KARAKUŞ F., YAYLI Y.  
ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.26, no.2, pp.625-644, 2016 (SCI-Expanded)
- XLIX. **On the Surface the Fermi-Walker Derivative in Minkowski 3-Space**  
KARAKUŞ F., YAYLI Y.  
ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.26, no.2, pp.613-624, 2016 (SCI-Expanded)
- L. **Involutions in Dual Split-Quaternions**  
Bekar M., YAYLI Y.  
ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.26, no.2, pp.553-571, 2016 (SCI-Expanded)
- LI. **The Fermi-Walker Derivative on the Spherical Indicatrix of Timelike Curve in Minkowski 3-Space**  
KARAKUŞ F., YAYLI Y.

- ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.26, no.1, pp.199-215, 2016 (SCI-Expanded)
- LII. **Canal Surfaces with Quaternions**  
Aslan S., YAYLI Y.  
ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.26, no.1, pp.31-38, 2016 (SCI-Expanded)
- LIII. **The Fermi-Walker Derivative on the Spherical Indicatrix of a Space Curve**  
KARAKUŞ F., YAYLI Y.  
ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.26, no.1, pp.183-197, 2016 (SCI-Expanded)
- LIV. **A new approach on curves of constant precession**  
Uzunoglu B., GÖK İ., YAYLI Y.  
APPLIED MATHEMATICS AND COMPUTATION, vol.275, pp.317-323, 2016 (SCI-Expanded)
- LV. **Differential Equation of the Loxodrome on a Helicoidal Surface**  
BABAARSLAN M., YAYLI Y.  
JOURNAL OF NAVIGATION, vol.68, no.5, pp.962-970, 2015 (SCI-Expanded)
- LVI. **THE DIFFERENTIAL GEOMETRY OF REGULAR CURVES ON A REGULAR TIME-LIKE SURFACE**  
Ozyilmaz E., Yayli Y.  
DYNAMIC SYSTEMS AND APPLICATIONS, vol.24, no.3, pp.349-360, 2015 (SCI-Expanded)
- LVII. **On the quaternionic Mannheim curves of  $Aw(k)$ -type in Euclidean space  $E-3$**   
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- I. **Singularities of Ruled Surfaces and Legendre Curves**  
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