

Prof. YUSUF YAYLI

Personal Information

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International Researcher IDs

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

ScopusID: 6602500102

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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 RİEMANN 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

M207 ANALİTİK 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
M485 KİNEMATİK, Undergraduate, 2013 - 2014
M208 ANALİTİK 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
M486 KİNEMATİK, Undergraduate, 2013 - 2014, 2012 - 2013
M473 DÖNÜŞÜMLER VEGEOMETRİLER, 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
815585 İLERİ 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
M358 DİFERANSİYEL 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
81535 YARI RİEMANN 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
815586 İLERİ 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
M474 DÖNÜŞÜMLER VEGEOMETRİLER, 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
M357 DİFERANSİYEL 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 diferansiyel geometrisi, Doctorate, S.ASLAN(Student), 2017
YAYLI Y., Rektifyan eğriler ve geometrik uygulamaları, Doctorate, B.YILMAZ(Student), 2016
YAYLI Y., Dual fractallar 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 diferansiyel 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 diferansiyel 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.JAFARI(Student), 2012
YAYLI Y., Hareket geometrisinde sabit ivmeli eğriler, Doctorate, N.ABAZARI(Student), 2012
YAYLI Y., Fermi-Walker türevi ve geometrik uygulamaları, Doctorate, F.KARAKUŞ(Student), 2012
YAYLI Y., Frenet hareketleri ve yüzeyler, Doctorate, N.MASROURI(Student), 2012
YAYLI Y., Küresel konikler ve uygulamaları, Doctorate, B. ALTUNKAYA(Student), 2012
YAYLI Y., Genelleştirilmiş Hamilton operatörleri ve Lie grupları, M.JAFARI(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.GHADAMI(Student), 2010
YAYLI Y., Altın diferansiyel geometri, Postgraduate, E.HATİCE(Student), 2010
YAYLI Y., Lie grupları üzerinde invaryant metrikler, Postgraduate, F.DOĞAN(Student), 2009
YAYLI Y., Galile uzaylarında hareketlerin geometrisi, Doctorate, E.ESİN(Student), 2009
YAYLI Y., Homotetik haretketler 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 metodlarla 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 parametreli 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 kauterniyonlar 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., Klzltuğ 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., EKMEKCİ 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.
 OPTIK, 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 $S(O)\overline{\cap}(3)$ and $S(O)\overline{\cap}(2,1)$ 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 OVIDIU 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**
Kocakusakli 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**
KIZILTUĞ S., YAYLI Y.
KUWAIT JOURNAL OF SCIENCE, vol.42, no.2, pp.128-140, 2015 (SCI-Expanded)
- LVIII. **GENERAL ROTATIONAL SURFACES WITH POINTWISE 1-TYPE GAUSS MAP IN PSEUDO-EUCLIDEAN SPACE E-2(4)**
AKSOYAK F. K., YAYLI Y.
INDIAN JOURNAL OF PURE & APPLIED MATHEMATICS, vol.46, no.1, pp.107-118, 2015 (SCI-Expanded)
- LIX. **Generalized quaternions and rotation in 3-space E3**
jafari m., YAYLI Y.
TWMS Journal of Pure and Applied Mathematics, vol.2, no.6, pp.224-232, 2015 (SCI-Expanded)
- LX. **GENERALIZED QUATERNIONS AND ROTATION IN 3-SPACE E-alpha beta(3)**
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- LXXXI. On the Bour s theorem with respect to conformal map in Minkowski space E31**
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- II. **A Study on Complexified Semi-Quaternions**
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- III. **Spherical curves and Quaternionic Helices**
 CANSU G., YAYLI Y.
 15th International Geometry Symposium, 3 - 06 July 2017
- IV. **Semi-Quaternions and Unit Tangent Bundle of Euclidean 3-Space**
 BEKAR M., YAYLI Y.
 15th International Geometry Symposium, 3 - 06 July 2017
- V. **Generalized Fermi-Walker Derivative and Bishop Frame**
 UÇAR A., KARAKUŞ F., YAYLI Y.
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- VI. **Structure and Characterization of Parallel Ruled Surfaces in Euclidean 3-Space**
 ÇAKMAK A., YAYLI Y.
 15th International Geometry Symposium, Amasya, Turkey, 3 - 06 July 2017
- VII. **A new approach on Roller Coaster surfaces with an alternative moving frame**
 ÇANAKCI Z., TUNCER O. O., GÖK İ., YAYLI Y.
 15 th International Geometry Symposium 2017, 3 - 06 July 2017
- VIII. **A New Aspect of Rectifying curves in Galilean 3-space**
 ÇETİN DEMİR E., GÖK İ., YAYLI Y.
 15 th International Geometry Symposium 2017, 3 June - 06 July 2017
- IX. **Kinematic Theory of Invariant Points**

- KAHVECİ D., YAYLI Y.
15th International Geometry Symposium, 3 - 06 July 2017
- X. **Legendre Curves and Rotation Minimizing Frames**
BEKAR M., YAYLI Y.
15th International Geometry Symposium, 3 - 06 July 2017
- XI. **Rotation minimizing frame and its applications in E1-3**
KESKİN Ö., YAYLI Y.
15th International Geometry Symposium, 3 - 06 July 2017
- XII. **The Fermi-Walker Derivative and Principal Normal Indicatrix in Euclid Space**
KARAKUŞ F., YAYLI Y.
15th International Geometry Symposium, 3 - 06 July 2017
- XIII. **Rectifying curves in n-dimensional Euclidean space**
YILMAZ B., GÖK İ., YAYLI Y.
15 th International Geometry Symposium 2017, 3 - 06 July 2017
- XIV. **Stationary Acceleration Curves Geometry**
ES H., YAYLI Y.
15th International Geometry Symposium, 3 - 06 July 2017
- XV. **Generalized Fermi-Walker Derivative in Euclidean Space**
UÇAR A., KARAKUŞ F., YAYLI Y.
15th International Geometry Symposium, 3 - 06 July 2017
- XVI. **Split Semi-Quaternions and Unit Tangent Bundle of Minkowski 3-Space**
BEKAR M., YAYLI Y.
15th International Geometry Symposium, 3 - 06 July 2017
- XVII. **Geometry of Fractal structures in Galilean Plane**
BÜYÜKYILMAZ E. A., YAYLI Y., GÖK İ.
International Conference on Mathematics and Mathematics Education, 11 - 13 May 2017
- XVIII. **On minimal homothetical surfaces**
RAMİS Ç., YAYLI Y.
International Conference on mathematics and mathematics education (ICMEE-2017), Harran University, 11 - 13 May 2017
- XIX. **On some special curves**
YILMAZ B., GÖK İ., YAYLI Y.
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- XX. **Rotational Surfaces with Pointwise 1-Type Gauss Map in Pseudo Euclidean Space E4/2**
AKSOYAK F. K., YAYLI Y.
International Workshop on Theory of Submanifolds, İstanbul, Turkey, 2 - 04 June 2016, pp.96-112
- XXI. **Homothetic Motion and Surfaces with Pointwise 1-Type Gauss Map in E-4**
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International Workshop on Theory of Submanifolds, İstanbul, Turkey, 2 - 04 June 2016, pp.80-95
- XXII. **Homothetic motions and surfaces with constant curvatures in Lorentzian 3 space**
DEMİR ÇETİN E., YAYLI Y.
8th International meeting on Lorentzian geometry, 20 - 23 September 2016
- XXIII. **Normal Fermi Walker derivative in Minkowski 3 space**
keskin ö., YAYLI Y.
8th International meeting on Lorentzian geometry, 20 - 23 September 2016
- XXIV. **A curve whose position vector lies on the orthogonal complement of its any Frenet vector in Minkowski n space**
ateş o., GÖK İ., YAYLI Y.
8th International meeting on Lorentzian geometry, 20 - 23 September 2016
- XXV. **Surfaces with a common isophote curve in Minkowski 3 space**

- tuncer o. o., GÖK İ., YAYLI Y.
8th International meeting on Lorentzian geometry, 20 - 23 September 2016
- XXVI. **Applications on the Magnetic Fields**
ÖZDEMİR Z., GÖK İ., EKMEKCİ F. N., YAYLI Y.
V. Uluslararası Avrasya Matematik Bilimleri ve Uygulamaları Konferansı (IECMSA-2016), Belgrade, Serbia, 16 - 19 August 2016
- XXVII. **Generalized quaternions and rotational surfaces with pointwise 1 type Gauss map**
YAYLI Y.
International Workshop on Theory of Submanifolds, 2 - 04 June 2016
- XXVIII. **C Curves in Minkowski Space**
öztürk e., YAYLI Y.
14th International Geometry Symposium, 25 - 28 May 2016
- XXIX. **Sierpinski type Fractals in Galilean Plane**
Büyükyılmaz E. A., YAYLI Y., GÖK İ.
14th International Geometry Symposium, 25 - 28 May 2016
- XXX. **Rectifying curves in Minkowski n space**
ATEŞ O., GÖK İ., YAYLI Y.
14th International Geometry Symposium, 25 - 28 May 2016
- XXXI. **Rectifying Salkowski curves with serial approach in Minkowski 3 space**
YILMAZ B., GÖK İ., YAYLI Y.
14th International Geometry Symposium, 25 - 28 May 2016
- XXXII. **Surfaces with a common isophote curve in Euclidean 3 space**
tuncer o. o., GÖK İ., YAYLI Y.
14 th International Geometry Symposium, 25 - 28 May 2016
- XXXIII. **A new type of associated curves**
ZİPLAR E., YAYLI Y., GÖK İ.
14th International Geometry Symposium, 25 - 28 May 2016
- XXXIV. **Dual Euler Rodrigues Formula**
kahveci d., YAYLI Y., GÖK İ.
14th International Geometry Symposium, 25 - 28 May 2016
- XXXV. **Some solutions on the flux surfaces**
ÖZDEMİR Z., GÖK İ., EKMEKCİ F. N., YAYLI Y.
14th International Geometry Symposium, 25 - 28 May 2016
- XXXVI. **The new frame approach for spatial curves**
RAMİS Ç., YAYLI Y.
14th International Geometry Symposium, 25 - 28 May 2016
- XXXVII. **Dual Split semi quaternions and planar motions**
BEKAR M., YAYLI Y.
ICMME 2016, 12 - 14 May 2016
- XXXVIII. **GENERALIZED BOURÍS THEOREM IN MINKOWSKI SPACE FORM**
GÜLER E., YAYLI Y.
International Conference on Pure and Applied Mathematics (ICPAM 2015), 25 - 28 August 2015
- XXXIX. **INVOLUTIONS OF DUAL SPLIT QUATERNIONS**
BEKAR M., YAYLI Y.
International Conference on Pure and Applied Mathematics (ICPAM 2015), 25 - 28 August 2015
- XL. **EULER SPIRALS IN SPACE FORMS**
SARAÇOĞLU ÇELİK S., YAYLI Y., GÜLER E.
International Conference on Pure and Applied Mathematics (ICPAM 2015), 25 - 28 August 2015
- XLI. **Küresel Elastik Eğriler**
KAYA S., ÖZDEMİR Z., YAYLI Y.
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- XLII. Manyetik Eğriler ve Aki Yüzeyleri**
 ÖZDEMİR Z., GÖK İ., EKMEKCİ F. N., YAYLI Y., OTO Ö.
 XIII. Geometri Sempozyumu, İstanbul, Turkey, 27 - 30 July 2015
- XLIII. Generalized of Null W slant Helices**
 Fatma G., GÖK İ., EKMEKCİ F. N., YAYLI Y.
 XII. Geometri Sempozyumu Bilecik Şeyh Edebali Üniversitesi, Turkey, 23 - 28 June 2014
- XLIV. Variational approach to curves on semi Riemannian Manifolds**
 ÖZDEMİR Z., GÖK İ., EKMEKCİ F. N., YAYLI Y.
 Karatekin Mathematics Days, Çankırı, Turkey, 11 - 13 June 2014
- XLV. Geometry of Similar Surfaces in E3**
 KAYA S., YAYLI Y.
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- XLVI. On Darboux helices in Minkowski space**
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 1st International Conference on Analysis and Applied Mathematics, ICAAM 2012, Gümüşhane, Turkey, 18 - 21 October 2012, vol.1470, pp.53-56
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 ÖZDEMİR Z., GÖK İ., EKMEKCİ F. N., YAYLI Y.
 II. International Eurasian Conference on Mathematical Sciences and Applications konferansı, 26 - 29 August 2013
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 Güler k. y., GÖK İ., YAYLI Y.
 II. International Eurasian Conference on Mathematical Sciences and Applications konferansı, 26 - 29 August 2013
- XLIX. Notes on curves in Sasakian 3 Manifolds**
 GÖK İ., YAYLI Y.
 I. International Eurasian Conference on Mathematical Sciences and Applications konferansı, 3 - 07 September 2012
- L. Harmonic curvature function of special curves in Lie groups**
 OKUYUCU O. Z., GÖK İ., YAYLI Y., EKMEKCİ F. N.
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- LI. Inclined curves in the Lightlike cone**
 YAKICI E. S., GÖK İ., EKMEKCİ F. N., YAYLI Y.
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 GÖK İ., ÖZKALDI KARAKUŞ S., YAYLI Y., Hasan Hilmi H.
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