

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

Director of Vocational School, Ankara University, Kızılcahamam Sağlık Hizmetleri Meslek Yüksekokulu, 2022 - Continues

Ankara University, 2010 - Continues

Courses

Doctorate

81536YARI RIEMANN GEOMETRİSİ, Doctorate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 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, Doctorate, 2024 - 2025, 2023 - 2024, 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, Doctorate, 2024 - 2025, 2023 - 2024, 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, Doctorate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 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

Undergraduate

M3320DİFERENSİYEL GEOMETRİ, Undergraduate, 2024 - 2025, 2023 - 2024, 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

M3319DİFERENSİYEL GEOMETRİ, Undergraduate, 2024 - 2025, 2023 - 2024, 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

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

Supervised 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.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.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 öklidiyen 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. **Differential Geometry and Matrix-Based Generalizations of the Pythagorean Theorem in Space Forms**
Güler E., YAYLI Y., Toda M.
Mathematics, vol.13, no.5, 2025 (SCI-Expanded)
- II. **Geometry of umbrella matrices in Galilean space**
Çarboğa M., YAYLI Y.
International Journal of Geometric Methods in Modern Physics, 2025 (SCI-Expanded)
- III. **REPRESENTATION OF GENERALIZED CIRCULAR SURFACES AS RIGID BODY MOTIONS**
Aslan S., BEKAR M., YAYLI Y.
Miskolc Mathematical Notes, vol.25, no.1, pp.79-91, 2024 (SCI-Expanded)
- IV. **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)
- V. **Geometric 3-space and multiplicative quaternions**
Aslan S., Bekar M., Yaylı Y.
INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, vol.20, no.9, 2023 (SCI-Expanded)
- VI. **Spherical circles and constant angle surfaces**
Yilmaz B., YAYLI Y.
Revista Mexicana de Fisica, vol.69, no.4, 2023 (SCI-Expanded)
- VII. **C*-partner curves with modified adapted frame and their applications**
Kiziltug S., Erisir T., Mumcu G., Yaylı Y.
AIMS MATHEMATICS, vol.8, no.1, pp.1345-1359, 2023 (SCI-Expanded)
- VIII. **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)
- IX. **Hyper-dual matrices and dual transformations**
YÜCA G., YAYLI Y.
JOURNAL OF GEOMETRY AND PHYSICS, vol.175, 2022 (SCI-Expanded)
- X. **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)
- XI. **Birotational hypersurface and the second Laplace-Beltrami operator in the four dimensional Euclidean space E-4**
GÜLER E., YAYLI Y., Hacısalihoglu H. H.
TURKISH JOURNAL OF MATHEMATICS, vol.46, no.6, pp.2167-2177, 2022 (SCI-Expanded)
- XII. **Geometric kinematics of persistent rigid motions in three-dimensional Minkowski space**
Kahveci D., Yaylı Y.
MECHANISM AND MACHINE THEORY, vol.167, 2022 (SCI-Expanded)
- XIII. **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, vol.139, pp.201-210, 2021 (SCI-Expanded)
- XIV. **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)
- XV. **Legendre Curves and the Singularities of Ruled Surfaces Obtained by Using Rotation Minimizing Frame**
BEKAR M., Hathout F., YAYLI Y.

Ukrainian Mathematical Journal, vol.73, no.5, pp.686-700, 2021 (SCI-Expanded)

- XVI. **Dual transformations and quaternions**
YÜCA G., YAYLI Y.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.44, no.14, pp.10957-10971, 2021 (SCI-Expanded)
- XVII. **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.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.44, no.8, pp.7004-7016, 2021 (SCI-Expanded)
- XVIII. **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)
- XIX. **Ruled surfaces constructed by quaternions**
Aslan S., BEKAR M., YAYLI Y.
JOURNAL OF GEOMETRY AND PHYSICS, vol.161, 2021 (SCI-Expanded)
- XX. **NORMAL DIRECTION CURVES AND APPLICATIONS**
KIZILTUĞ S., Onder M., YAYLI Y.
MISKOLC MATHEMATICAL NOTES, vol.22, no.1, pp.363-374, 2021 (SCI-Expanded)
- XXI. **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)
- XXII. **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)
- XXIII. **Hyper-dual split quaternions and rigid body motion**
Aslan S., BEKAR M., YAYLI Y.
JOURNAL OF GEOMETRY AND PHYSICS, vol.158, 2020 (SCI-Expanded)
- XXIV. **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.
JOURNAL OF INEQUALITIES AND APPLICATIONS, vol.2020, no.1, 2020 (SCI-Expanded)
- XXV. **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.
INTERNATIONAL JOURNAL OF APPROXIMATE REASONING, vol.124, pp.59-65, 2020 (SCI-Expanded)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **Circular Surfaces with Split Quaternionic Representations in Minkowski 3-space**
TUNCER O. O., Canakci Z., GÖK İ., Yayli Y.
ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.28, no.3, 2018 (SCI-Expanded)

- XXXI. **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)
- XXXII. **Dual Transformation Between $S(O)$ over-cap(3) and $S(O)$ 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)
- XXXIII. **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, no.2, pp.1029-1039, 2018 (SCI-Expanded)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **Quaternionic Shape Operator**
Aslan S., YAYLI Y.
ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.27, no.4, pp.2921-2931, 2017 (SCI-Expanded)
- XXXIX. **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)
- XL. **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)
- XLI. **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)
- XLII. **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)
- XLIII. **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)
- XLIV. **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)
- XLV. **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)
- XLVI. **Stationary acceleration of Frenet curves**
Abazari N., Bohner M., Sager I., YAYLI Y.

- JOURNAL OF INEQUALITIES AND APPLICATIONS, vol.2017, 2017 (SCI-Expanded)
- XLVII. **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)
- XLVIII. **Generalized constant ratio surfaces and quaternions**
Aslan S., YAYLI Y.
KUWAIT JOURNAL OF SCIENCE, vol.44, no.1, pp.42-47, 2017 (SCI-Expanded)
- XLIX. **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)
- L. **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)
- LI. **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)
- LII. **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, no.10, 2016 (SCI-Expanded)
- LIII. **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)
- LIV. **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)
- LV. **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)
- LVI. **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)
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VIII. Geometri Sempozyumu konferansı, Turkey, 29 April - 02 May 2010

LV. De Moivre and Euler formulas for matrices of Quaternions

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Congress and Symposium Activities

INTERNATIONAL CONFERENCE ON MATHEMATICS AND MATHEMATICS EDUCATION (ICMME), Attendee, Nevşehir, Turkey, 2024

15. Ankara Matematik Günleri, Attendee, Ankara, Turkey, 2024

Karaelmas International Science and Engineering Symposium, Invited Speaker, Zonguldak, Turkey, 2024

International Symposium on Current Developments in Fundamental and Applied Mathematics Sciences, Invited Speaker, Ankara, Turkey, 2023

International Geometry Symposium in Memory of Prof. Erdoğan ESİN, Attendee, Ankara, Turkey, 2023