

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

Yoksis Researcher ID: 6623

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

81536YARI RİEMANN 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

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

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 RİEMANN 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

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

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 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. **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)
- II. **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)
- III. **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)
- IV. **Spherical circles and constant angle surfaces**
Yilmaz B., YAYLI Y.
Revista Mexicana de Fisica, vol.69, no.4, 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. **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)
- VII. **Hyper-dual matrices and dual transformations**
YÜCA G., YAYLI Y.
JOURNAL OF GEOMETRY AND PHYSICS, vol.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, 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. **Geometric kinematics of persistent rigid motions in three-dimensional Minkowski space**
Kahveci D., Yayli Y.
MECHANISM AND MACHINE THEORY, vol.167, 2022 (SCI-Expanded)
- XI. **Pairwise comparisons matrix decomposition into approximation and orthogonal component using Lie theory**
Koczkodaj W. W., Marek V. W., Yayli Y.
INTERNATIONAL JOURNAL OF APPROXIMATE REASONING, vol.139, pp.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, vol.31, no.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, vol.73, no.5, pp.686-700, 2021 (SCI-Expanded)
- XIV. **Dual transformations and quaternions**
YÜCA G., YAYLI Y.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.44, no.14, pp.10957-10971, 2021 (SCI-Expanded)
- 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, vol.44, no.8, pp.7004-7016, 2021 (SCI-Expanded)

- XVI. **Ruled surfaces constructed by quaternions**
Aslan S., BEKAR M., YAYLI Y.
JOURNAL OF GEOMETRY AND PHYSICS, vol.161, 2021 (SCI-Expanded)
- XVII. **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)
- XVIII. **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)
- XIX. **NORMAL DIRECTION CURVES AND APPLICATIONS**
KIZILTUĞ S., Onder M., YAYLI Y.
MISKOLC MATHEMATICAL NOTES, vol.22, no.1, pp.363-374, 2021 (SCI-Expanded)
- XX. **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)
- XXI. **Hyper-dual split quaternions and rigid body motion**
Aslan S., BEKAR M., YAYLI Y.
JOURNAL OF GEOMETRY AND PHYSICS, vol.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.
JOURNAL OF INEQUALITIES AND APPLICATIONS, vol.2020, no.1, 2020 (SCI-Expanded)
- 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.
INTERNATIONAL JOURNAL OF APPROXIMATE REASONING, vol.124, pp.59-65, 2020 (SCI-Expanded)
- XXIV. **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)
- 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, vol.44, no.5, pp.1561-1577, 2020 (SCI-Expanded)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)

- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **Quaternionic Shape Operator**
Aslan S., YAYLI Y.
ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.27, no.4, pp.2921-2931, 2017 (SCI-Expanded)
- XXXVII. **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)
- XXXVIII. **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)
- XXXIX. **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)
- XL. **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)
- XLI. **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)
- XLII. **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)
- XLIII. **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)
- 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. **Generalized constant ratio surfaces and quaternions**
Aslan S., YAYLI Y.
KUWAIT JOURNAL OF SCIENCE, vol.44, no.1, pp.42-47, 2017 (SCI-Expanded)
- XLVI. **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)

- XLVII. 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)
- XLVIII. 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)
- XLIX. Stationary acceleration of Frenet curves**
Abazari N., Bohner M., Sager I., YAYLI Y.
JOURNAL OF INEQUALITIES AND APPLICATIONS, vol.2017, 2017 (SCI-Expanded)
- L. 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)
- LI. 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)
- LII. 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)
- LIII. 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)
- 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. Involutions in Dual Split-Quaternions**
Bekar M., YAYLI Y.
ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.26, no.2, pp.553-571, 2016 (SCI-Expanded)
- LVI. 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)
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Citation (WoS): 710

Citation (Scopus): 897

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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