

## Prof. Dr. Aydın GEZER

### Kişisel Bilgiler

Fax Telefonu: [+90 442 231 4366](tel:+904422314366)

Web: <https://avesis.atauni.edu.tr/agezer>

### Uluslararası Araştırmacı ID'leri

ScholarID: GuZ4s50AAAAJ

ORCID: 0000-0001-7505-0385

Yoksis Araştırmacı ID: 171695

### Yabancı Diller

İngilizce, B2 Orta Üstü

### Yaptığı Tezler

Doktora, TENSÖR DEMETTE LIFT TEORISİNİN BAZI PROBLEMLERİ, Atatürk Üniversitesi, Matematik Anabilim Dalı, Geometri, 2008

Yüksek Lisans, Yatay lift teorisi, Atatürk Üniversitesi, Matematik Anabilim Dalı, Geometri, 2004

### Araştırma Alanları

Matematik, Diferansiyel Geometri, Temel Bilimler

### Akademik Unvanlar / Görevler

Prof. Dr., Atatürk Üniversitesi, Fen Fakültesi, Matematik, 2016 - Devam Ediyor

Doç. Dr., Atatürk Üniversitesi, Fen Fakültesi, 2011 - 2016

### Verdiği Dersler

Olasılık, Lisans, 2023 - 2024

Lateks, Yüksek Lisans, 2023 - 2024

Temel Geometri, Lisans, 2023 - 2024

Mesleki İngilizce, Lisans, 2023 - 2024

### Yönetilen Tezler

GEZER A., Anti hermitian manifoldlar üzerinde Codazzi çiftlerinin geometrisi, Yüksek Lisans, H.Çakırcıoğlu(Öğrenci), 2018

GEZER A., (1,1)- tipli tensör demette Vranceanu konneksiyonları, Yüksek Lisans, E.Doğan(Öğrenci), 2017

GEZER A., Tanjant demette semi-simetrik metrik konneksiyon, Yüksek Lisans, E.Karakaş(Öğrenci), 2016

GEZER A., Riemann manifoldları üzerindeki bazı özel yapılar ve F-konneksiyonlar, Doktora, Ç.Karaman(Öğrenci), 2016

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GEZER A., Keyfi tipli tensör demetlerin geometrisi, Doktora, M.Altunbaş(Öğrenci), 2014  
GEZER A., Altın-Hessian yapılar, Yüksek Lisans, Ç.Karaman(Öğrenci), 2013  
GEZER A., Infinitesimal konformal dönüşümler hakkında, Yüksek Lisans, L.Bilen(Öğrenci), 2011

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

- I. **A Study on the Second Order Tangent Bundles over Bi-Kählerian Manifolds**  
Djaa N. E., GEZER A., Zagane A.  
Chinese Annals of Mathematics. Series B, cilt.45, sa.5, ss.777-804, 2024 (SCI-Expanded)
- II. **Exploring Conformal Soliton Structures in Tangent Bundles with Ricci-Quarter Symmetric Metric Connections**  
Li Y., GEZER A., Karakas E.  
Mathematics, cilt.12, sa.13, 2024 (SCI-Expanded)
- III. **Analyzing Curvature Properties and Geometric Solitons of the Twisted Sasaki Metric on the Tangent Bundle over a Statistical Manifold**  
Yan L., Li Y., BİLEN L., GEZER A.  
MATHEMATICS, cilt.12, sa.9, 2024 (SCI-Expanded)
- IV. **A short note on generalized Robertson Walker spacetimes**  
De U. C., GEZER A.  
Turkish Journal of Mathematics, cilt.48, sa.5, ss.955-964, 2024 (SCI-Expanded)
- V. **A study on the tangent bundle with the vertical generalized Berger type deformed Sasaki metric**  
Chaoui S., Zagane A., GEZER A., Djaa N. E.  
Hacettepe Journal of Mathematics and Statistics, cilt.52, sa.5, ss.1179-1197, 2023 (SCI-Expanded)
- VI. **Notes concerning Codazzi pairs on almost anti-Hermitian manifolds**  
GEZER A., Cakicioglu H.  
Applied Mathematics, cilt.38, sa.2, ss.223-234, 2023 (SCI-Expanded)
- VII. **MAGNETIC FIELDS ON THE TANGENT BUNDLE OVER KÄHLERIAN MANIFOLDS**  
Djaa N. E., GEZER A., Djaa M.  
Reports on Mathematical Physics, cilt.91, sa.2, ss.143-164, 2023 (SCI-Expanded)
- VIII. **CoKähler and Cosymplectic Hom-Lie Algebras**  
Peyghan E., Nourmohammadifar L., Gezer A., Tosun E.  
MEDITERRANEAN JOURNAL OF MATHEMATICS, cilt.20, sa.2, 2023 (SCI-Expanded)
- IX. **Representations and deformations of 3-Hom-  $\rho$  -Lie algebras**  
Peyghan E., Gezer A., Bagheri Z., Gültekin İ.  
Journal of Algebra and its Applications, cilt.22, sa.3, 2023 (SCI-Expanded)
- X. **Conformal vector fields and geometric solitons on the tangent bundle with the ciconia metric**  
GEZER A., Bilen L., De U. C.  
Filomat, cilt.37, sa.24, ss.8193-8204, 2023 (SCI-Expanded)
- XI. **Some notes on the tangent bundle with a Ricci quarter-symmetric metric connection**  
Li Y., GEZER A., Karakaş E.  
AIMS Mathematics, cilt.8, sa.8, ss.17335-17353, 2023 (SCI-Expanded)
- XII. **Some Results on Tangent Bundles with Berger Type Deformed Sasaki Metric over Kählerian Manifolds**  
GEZER A., Zagane A., Djaa N. E.  
Journal of Mathematical Physics, Analysis, Geometry, cilt.19, sa.3, ss.642-665, 2023 (SCI-Expanded)
- XIII. **Perfect fluid spacetimes and k-almost Yamabe solitons**  
De K., De U. C., GEZER A.  
TURKISH JOURNAL OF MATHEMATICS, cilt.47, sa.4, ss.1236-1246, 2023 (SCI-Expanded)

- XIV. **F—geodesics on the second order tangent bundle over a Riemannian manifold**  
Djaa N. E., Gezer A., Karaca K.  
Filomat, cilt.37, sa.8, ss.2561-2576, 2023 (SCI-Expanded)
- XV. **Conjugate connections and their applications on pure metallic metric geometries**  
Durmaz O., GEZER A.  
Ricerche di Matematica, 2023 (SCI-Expanded)
- XVI. **E-Connections on the epsilon-Anti-Kahler Manifolds**  
Chen Z., Li Y., Gezer A., Karakas E., Karaman Ç.  
SYMMETRY-BASEL, cilt.14, sa.9, 2022 (SCI-Expanded)
- XVII. **On Codazzi Couplings on the Metric (E-4 = I)-Manifolds**  
Turanlı S., Gezer A.  
SYMMETRY-BASEL, cilt.14, sa.7, 2022 (SCI-Expanded)
- XVIII. **Kähler-Norden Structures on Statistical Manifolds**  
Peyghan E., GEZER A., Nourmohammadifar L.  
FILOMAT, cilt.36, sa.17, ss.5691-5706, 2022 (SCI-Expanded)
- XIX. **Metallic Kahler and nearly metallic Kahler manifolds**  
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- XX. **Some Notes on Metallic Kahler Manifolds**  
GEZER A., Topcuoglu F., De U. C.  
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- XXI. **Distinguished Connections on Finsler Algebroids**  
Peyghan E., Gezer A., Gültekin İ.  
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- XXII. **Statistical structures on tangent bundles and Lie groupoids**  
Peyghan E., Seifipour D., GEZER A.  
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- XXIII. **SOME HARMONIC PROBLEMS ON THE TANGENT BUNDLE WITH A BERGER-TYPE DEFORMED SASAKI METRIC**  
ALTUNBAŞ M., Simsek R., GEZER A.  
UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A-APPLIED MATHEMATICS AND PHYSICS, cilt.82, sa.2, ss.37-42, 2020 (SCI-Expanded)
- XXIV. **On anti-Kähler manifolds with complex semi-symmetric metric F-connection**  
KARAMAN Ç., GEZER A.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, cilt.49, sa.3, ss.1006-1019, 2020 (SCI-Expanded)
- XXV. **The second-order tangent bundle with deformed 2nd lift metric**  
MAĞDEN A., KARACA K., GEZER A.  
INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, cilt.16, sa.4, 2019 (SCI-Expanded)
- XXVI. **Remarks about the Kaluza-Klein metric on tangent bundle**  
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- XXVII. **GEOMETRY OF STATISTICAL F-CONNECTIONS ON THE ANTI-KÄHLER MANIFOLD**  
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- XXVIII. **A Study Concerning Berger Type Deformed Sasaki Metric on the Tangent Bundle**  
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- XXIX. **On Affine Connections Induced on the (1,1)-Tensor Bundle**  
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- XXX. **On Kahler-Norden-Codazzi golden structures on pseudo-Riemannian manifolds**  
Bilen L., Turanli S., GEZER A.  
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- XXXI. **PROJECTIVE VECTOR FIELDS ON THE TANGENT BUNDLE WITH A CLASS OF RIEMANNIAN METRICS**  
GEZER A., Bilen L.  
COMPTES RENDUS DE L ACADEMIE BULGARE DES SCIENCES, cilt.71, sa.5, ss.587-596, 2018 (SCI-Expanded)
- XXXII. **ON NEARLY PARAKAHLER MANIFOLDS**  
GEZER A., Turanli S.  
BULLETIN OF THE KOREAN MATHEMATICAL SOCIETY, cilt.55, sa.3, ss.871-879, 2018 (SCI-Expanded)
- XXXIII. **Geometry of the Second-Order Tangent Bundles of Riemannian Manifolds**  
GEZER A., MAĞDEN A.  
CHINESE ANNALS OF MATHEMATICS SERIES B, cilt.38, sa.4, ss.985-998, 2017 (SCI-Expanded)
- XXXIV. **On golden semisymmetric metric F-connections**  
Gezer A., Karaman Ç.  
TURKISH JOURNAL OF MATHEMATICS, cilt.41, sa.4, ss.869-887, 2017 (SCI-Expanded)
- XXXV. **On the rescaled Riemannian metric of Cheeger-Gromoll type on the cotangent bundle**  
GEZER A., Altunbas M.  
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- XXXVI. **Golden-Hessian Structures**  
Gezer A., Karaman Ç.  
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- XXXVII. **On the (1,1)-tensor bundle with Cheeger-Gromoll type metric**  
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- XXXVIII. **ON THE GEOMETRY OF THE RESCALED RIEMANNIAN METRIC ON TENSOR BUNDLES OF ARBITRARY TYPE**  
GEZER A., Altunbas M.  
KODAI MATHEMATICAL JOURNAL, cilt.38, sa.1, ss.37-64, 2015 (SCI-Expanded)
- XXXIX. **On metallic Riemannian structures**  
GEZER A., KARAMAN Ç.  
TURKISH JOURNAL OF MATHEMATICS, cilt.39, sa.6, ss.954-962, 2015 (SCI-Expanded)
- XL. **Some results on a cross-section in the tensor bundle**  
GEZER A., Altunbas M.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, cilt.43, sa.3, ss.391-397, 2014 (SCI-Expanded)
- XLI. **NOTES ON THE RESCALED SASAKI TYPE METRIC ON THE COTANGENT BUNDLE**  
GEZER A., Altunbas M.  
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- XLII. **Norden structures of Hessian type**  
SALIMOV A., GEZER A.  
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- XLIII. **Notes on the tangent bundle with deformed complete lift metric**  
GEZER A., ÖZKAN M.  
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- XLIV. **On integrability of golden riemannian structures**  
GEZER A., CENGİZ N., SALIMOV A.  
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- XLV. **ON DUAL HOLOMORPHIC B-TYPE HESSIAN METRICS**  
GEZER A., KARAMAN Ç.  
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- XLVI. **Some notes concerning Riemannian metrics of Cheeger Gromoll type**  
 GEZER A., Altunbas M.  
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- XLVII. **On infinitesimal conformal transformations with respect to the Cheeger-Gromoll metric**  
 GEZER A., BİLEN L.  
 ANALELE STIINTIFICE ALE UNIVERSITATII OVIDIUS CONSTANTA-SERIA MATEMATICA, cilt.20, sa.1, ss.113-127, 2012 (SCI-Expanded)
- XLVIII. **On para-Kähler-Norden structures on the tangent bundles**  
 SALIMOV A., GEZER A., İŞCAN M.  
 ANNALES POLONICI MATHEMATICI, cilt.103, sa.3, ss.247-261, 2012 (SCI-Expanded)
- XLIX. **On the Geometry of the (1,1)-Tensor Bundle with Sasaki Type Metric**  
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- L. **On almost complex structures in the cotangent bundle**  
 SALIMOV A., GEZER A., Aslanci S.  
 TURKISH JOURNAL OF MATHEMATICS, cilt.35, sa.3, ss.487-492, 2011 (SCI-Expanded)
- LI. **On infinitesimal holomorphically projective transformations on the tangent bundles with respect to the Sasaki metric**  
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- LII. **On the geometry of tangent bundles with the metric II + III**  
 GEZER A., TARAKCI Ö., SALIMOV A.  
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- LIII. **Geodesics of Sasakian Metrics on Tensor Bundles**  
 SALIMOV A., GEZER A., AKBULUT K.  
 MEDITERRANEAN JOURNAL OF MATHEMATICS, cilt.6, sa.2, ss.135-147, 2009 (SCI-Expanded)
- LIV. **On infinitesimal conformal transformations of the tangent bundles with the symplectic lift of a Riemannian metric**  
 Gezer A.  
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- LV. **ALMOST COMPLEX STRUCTURES ON THE TENSOR BUNDLES**  
 GEZER A., SALIMOV A.  
 ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, cilt.33, ss.283-296, 2008 (SCI-Expanded)
- LVI. **Diagonal lifts of tensor fields of type (1,1) on cross-sections in tensor bundles and its applications**  
 GEZER A., SALIMOV A.  
 JOURNAL OF THE KOREAN MATHEMATICAL SOCIETY, cilt.45, sa.2, ss.367-376, 2008 (SCI-Expanded)
- LVII. **Infinitesimal automorphisms in the tangent bundle of a Riemannian manifold with horizontal lift of affine connection**  
 GEZER A., AKBULUT K.  
 Chiang Mai Journal Of Science, cilt.34, sa.2, ss.151-159, 2007 (SCI-Expanded)

## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **ON THE TANGENT BUNDLES OVER F-KÄHLERIAN MANIFOLDS**  
 Nour Elhouda D., GEZER A.  
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- II. **Covariant derivatives of prolongations on the semi-tangent bundle**  
 YILDIRIM F., AKBULUT K., GEZER A.

- Advanced Studies: Euro-Tbilisi Mathematical Journal, cilt.17, sa.4, ss.17-31, 2024 (ESCI)
- III. **Classification of Vector Fields and Soliton Structures on a Tangent Bundle with a Ricci Quarter-Symmetric Metric Connection**  
 GEZER A., Karakas E.  
 International Electronic Journal of Geometry, cilt.17, sa.2, ss.358-377, 2024 (ESCI)
- IV. **?\*-Ricci solitons and paracontact geometry**  
 Sardar A., De U. C., GEZER A.  
 JOURNAL OF ANALYSIS, cilt.31, ss.2861-2876, 2023 (ESCI)
- V. **Notes on the Second Tangent Bundle over an Anti -biparaKaehlerian Manifold**  
 Djaa N. E., GEZER A.  
 Kyungpook Mathematical Journal, cilt.63, sa.1, ss.79-95, 2023 (ESCI)
- VI. **RESULTS CONCERNING SEMI-SYMMETRIC METRIC F-CONNECTIONS ON THE HSU-B MANIFOLDS**  
 De U. C., GEZER A., KARAMAN Ç.  
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- VII. **ON THE COTANGENT BUNDLE AND UNIT COTANGENT BUNDLE WITH A GENERALIZED CHEEGER-GROMOLL METRIC**  
 Zagane A., Djaa N. E., GEZER A.  
 FACTA UNIVERSITATIS-SERIES MATHEMATICS AND INFORMATICS, cilt.38, sa.1, ss.153-178, 2023 (ESCI)
- VIII. **Vertical rescaled Cheeger-Gromoll metric and harmonicity on the cotangent bundle**  
 Zagane A., Gezer A.  
 ADVANCED STUDIES-EURO-TBILISI MATHEMATICAL JOURNAL, cilt.15, sa.3, ss.11-29, 2022 (ESCI)
- IX. **Notes on the second-order tangent bundles with the deformed Sasaki metric**  
 KARACA K., GEZER A., MAĞDEN A.  
 COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, cilt.71, 2022 (ESCI)
- X. **Sasaki-Kenmotsu manifolds**  
 Beldjilali G., Gezer A.  
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- XI. **On Golden Semi-symmetric Non-metric F-Connections**  
 Karaman Ç., Gezer A.  
 SOUTHEAST ASIAN BULLETIN OF MATHEMATICS, cilt.45, sa.4, ss.509-520, 2021 (ESCI)
- XII. **SOME VECTOR FIELDS ON THE TANGENT BUNDLE WITH A SEMI-SYMMETRIC METRIC CONNECTION**  
 Gezer A., Karakas E.  
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- XIII. **Some Problems Concerning with Sasaki Metric on the Second-Order Tangent Bundles**  
 Magden A., GEZER A., Karaca K.  
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- XIV. **A study on complex semi-symmetric non-metric F-connections on anti-Kahler manifolds**  
 KARAMAN Ç., GEZER A.  
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- XV. **Semi-symmetry properties of the tangent bundle with a pseudo-Riemannian metric**  
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 ITALIAN JOURNAL OF PURE AND APPLIED MATHEMATICS, sa.42, ss.51-58, 2019 (ESCI)
- XVI. **SOME PROPERTIES OF ANTI-KAHLER MANIFOLDS EQUIPPED WITH QUARTER-SYMMETRIC F-CONNECTIONS**  
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- XVII. **The Schouten-Van Kampen connection on the (1,1)-tensor bundle**  
 Altunbas M., GEZER A.  
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- XVIII. **On metric connections with torsion on the cotangent bundle with modified Riemannian extension**

- Bilen L., GEZER A.  
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- XIX. **On a semi-symmetric metric connection on the tangent bundle with the complete lift metric**  
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- XX. **CURVATURE PROPERTIES OF RIEMANNIAN METRICS OF THE FORM  $Sgf H g$  ON THE TANGENT BUNDLE OVER A RIEMANNIAN MANIFOLD  $M g$**   
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- XXI. **On the tangent bundle with deformed Sasaki metric**  
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- XXII. **A Infinitesimal holomorphically projective transformations on tangent bundles with respect to the synectic metric tensor**  
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- XXIII. **Infinitesimal holomorphically projective transformations on tangent bundles with respect to the synectic metric tensor,**  
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- XXIV. **Geodesics and Killing vector fields in a tangent bundle**  
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- XXV. **Infinitesimal affine transformations in the tangent bundle of a Riemannian manifold with respect to the horizontal lift of an affine connection.**  
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### **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **A Different Approach to Statistical Manifold**  
GEZER A., KARAMAN Ç.  
3rd International Conference on Mathematical Advances and Applications, 24 - 27 Haziran 2020
- II. **Curvature properties of Sasakian metrics on second order tangent bundle**  
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The XIII-th International Conference of Differential Geometry and Dynamical Systems, Bükreş, Romanya, 10 - 13 Ekim 2019
- III. **Geometry of Statistical F-connections**  
KARAMAN Ç., GEZER A.  
16 TH INTERNATIONAL GEOMETRY SYMPOSIUM, Manisa, Türkiye, 20 - 22 Temmuz 2018, ss.128
- IV. **Geometry of Statistical F-connections**  
KARAMAN Ç., GEZER A.  
16 TH INTERNATIONAL GEOMETRY SYMPOSIUM, Manisa, Türkiye, 20 - 22 Temmuz 2018, ss.128
- V. **On the Curvatures Properties of Tangent Bundle of Hypersurfaces in a Euclidean Space**  
YURTTANÇIKMAZ S., TARAKCI Ö., GEZER A.  
16th International Geometry Symposium, 4 - 07 Temmuz 2018, ss.281
- VI. **A Study on The Deformed Second Lift Metric on The Second Order Tangent Bundle**  
MAĞDEN A., GEZER A., KARACA K.  
16.Uluslararası Geometri Sempozyumu, 4 - 07 Temmuz 2018
- VII. **PROPERTIES OF ANTI-KAHLER-CODAZZI MANIFOLDS**

TURANLI S., GEZER A.

3RD INTERNATIONAL CONFERENCE ON COMPUTATIONAL MATHEMATICS AND ENGINEERING SCIENCES, CMES  
2018, Girne, Kıbrıs (Kktc), 4 - 06 Mayıs 2018

- VIII. **Some properties of Kahler-Norden-Codazzi golden structures on pseudo-Riemannian manifolds**  
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- X. **Some Properties of Kaluza-Klein Metric on Tangent Bundle**  
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## **Bilimsel Dergilerdeki Faaliyetler**

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## **Metrikler**

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## **Akademi Dışı Deneyim**

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