

# Prof. İsmail Aydemir

## Personal Information

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## Education Information

Doctorate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 1992 - 1995

Postgraduate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), Turkey 1989 - 1992

Undergraduate, Inonu University, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 1984 - 1988

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, IRn1 minkowski uzayında time-like doğrultman uzaylı genelleştirilmiş time-like regle yüzeyler, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Matematik (Dr), 1995

Postgraduate, nE de simetrik homotetik hareketlere iştirak eden genelleştirilmiş regle yüzey çiftlerinin integral invariantsları ve kesit eğrilikleri, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), 1992

## Courses

LİNEER CEBİR I, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009

DİFERENSİYEL GEOMETRİ II, Undergraduate, 2013 - 2014, 2012 - 2013

DİFERENSİYEL GEOMETRİ I, Undergraduate, 2013 - 2014, 2012 - 2013

LİNEER CEBİR II, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009

Genelleştirilmiş Regle yüzeyler Teorisi, Doctorate, 2013 - 2014

DÖNÜŞÜMLER VE GEOMETRİLER, Undergraduate, 2012 - 2013

## Articles Published in Other Journals

- I. **The Transversal Intersection of Surfaces Generated by Time-like Mannheim Curve Pair**  
KARAAHMETOĞLU S., YERLİKAYA F., AYDEMİR İ.  
Prespacetime Journal, vol.12, no.1, pp.83-91, 2021 (Peer-Reviewed Journal)
- II. **3-Boyutlu Minkowski Uzayında Bishop Çatısına Göre Sabit Eğrilikli Null Olmayan Regle Yüzeyler**  
TEKİN N. C., AYDEMİR İ.  
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.10, pp.1997-2008, 2020 (Peer-Reviewed Journal)
- III. **On the Transversal Intersection Curve of the Special Surfaces of Bertrand Curve Pairs**  
Savaş K., YERLİKAYA F., AYDEMİR İ.  
Prespacetime, vol.8, no.7, pp.852-864, 2017 (Peer-Reviewed Journal)

- IV. **The Ruled Surfaces Generated by Frenet Vectors of A Curve in  $R^3_1$**   
ORBAY K., AYDEMİR İ.  
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.6, no.2, pp.155-160, 2010 (Peer-Reviewed Journal)
- V. **A Method of the Determination of a Geodesic Curve on Timelike Ruled Surface with Spacelike Rulings**  
KASAP E., AYDEMİR İ., ORBAY K.  
World Applied Sciences Journal, vol.6, no.5, pp.697-701, 2009 (Peer-Reviewed Journal)
- VI. **The Ruled Surfaces Generated by Frenet Vectors of Time-Like Ruled Surface in the Minkovski Space  $R^3_1$**   
AYDEMİR İ., ORBAY K.  
World Applied Sciences Journal, vol.6, no.5, pp.692-696, 2009 (Peer-Reviewed Journal)
- VII. **Properties of 2-Dimensional Time-like Ruled Surfaces in the Minkowski Space  $R^n_1$**   
TOSUN M., AYDEMİR İ., KURUOĞLU N.  
PROCEEDINGS OF THE ESTONIAN ACADEMY OF SCIENCES: PHYSICS, MATHEMATICS, vol.54, no.4, pp.235-242, 2005 (Peer-Reviewed Journal)
- VIII. **Massey' s Theorem for 2-Dimensional Time-Like Ruled Surfaces in the Minkowski Space  $R^n_1$  and Some Characterizations**  
AYDEMİR İ., KURUOĞLU N.  
Irsiam Journal on Applied Mathematics, vol.1, no.-, pp.34-43, 2005 (Peer-Reviewed Journal)
- IX. **On the Properties of  $(k_1)$ -Dimensional Time-Like Ruled Surfaces with the Space-Like Generating Space in the Minkowski Space  $R^n_1$**   
CAN S., UYAR DÜLDÜL B., AYDEMİR İ.  
MATHEMATICAL AND COMPUTATIONAL APPLICATIONS, vol.9, no.3, pp.393-398, 2004 (Peer-Reviewed Journal)
- X. **Hyperruled Surfaces with the Time-Like Generating Space in the Minkowski Space  $R^n_1$**   
UYAR DÜLDÜL B., CAN S., AYDEMİR İ.  
International Journal of Applied Mathematics, vol.14, no.2, pp.125-133, 2003 (Peer-Reviewed Journal)
- XI. **On the Minimality and Total Developability of the Time-Like Ruled Surfaces with the Time-Like Generating Space in the Minkowski Space  $R^n_1$**   
CAN S., UYAR DÜLDÜL B., AYDEMİR İ.  
International Journal of Differential Equations and Applications, vol.7, no.3, pp.339-348, 2003 (Peer-Reviewed Journal)
- XII. **Time-Like Ruled Surfaces in the Minkowski Space  $R^n_1$**   
AYDEMİR İ., KURUOĞLU N.  
International Journal of Applied Mathematics, vol.10, no.2, pp.149-158, 2002 (Peer-Reviewed Journal)
- XIII. **The Natural Lift Curves and the Geodesic Sprays for the Spherical Indicatrices of the Pair of Evolute-Involute Curves**  
BİLİCİ M., ÇALIŞKAN M., AYDEMİR İ.  
International Journal of Applied Mathematics, vol.11, no.4, pp.415-420, 2002 (Peer-Reviewed Journal)
- XIV. **The natural Lift and the Geodesic Sprays for the Spherical Indicatrices of the Pair of Involute Evolute Curves**  
Bilici M., Aydemir İ., Çalışkan M.  
International Journal of Applied Mathematics, vol.11, no.4, pp.415-420, 2002 (Peer-Reviewed Journal)
- XV. **Edge, Center and Principal Ruled Surfaces of  $(k_1)$ -Dimensional Generalised Time-Like Ruled Surface in the Minkowski Space  $R^n_1$**   
AYDEMİR İ., KURUOĞLU N.  
Pure And Applied Matematika Sciences, vol.1, no.1-2, pp.19-24, 2000 (Peer-Reviewed Journal)
- XVI. **Properties of 2-Dimensional Space-Like Ruled Surfaces in the Minkowski Space  $R^n_1$**   
TOSUN M., AYDEMİR İ.  
The Journal of Indian Academy of Mathematics, vol.21, no.2, pp.169-180, 1999 (Peer-Reviewed Journal)
- XVII. **On  $(k_1)$ -Dimensional Space-Like Ruled Surface in the Minkowski Space**  
TOSUN M., AYDEMİR İ., KURUOĞLU N.

- ACTA MATHEMATICA VIETNAMICA, vol.24, no.1, pp.63-74, 1999 (Peer-Reviewed Journal)
- XVIII. **On 2-Dimensional Time-Like Ruled Surfaces in the Minkowski Spaces  $R_n$**   
TOSUN M., AYDEMİR İ.  
Bulletin of Pure And Applied Sciences, vol.17, no.2, pp.247-256, 1998 (Peer-Reviewed Journal)
- XIX. **On the  $(k_1)$ - Dimensional Space-Like Ruled Surfaces in the Minkowski Spaces  $R_n$**   
TOSUN M., AYDEMİR İ.  
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.46, no.-, pp.27-36, 1997 (Peer-Reviewed Journal)
- XX. **Properties of 2- Dimensional Space-Like Ruled Surface in the Minkowski Space  $R_n$**   
AYDEMİR İ., TOSUN M., KURUOĞLU N.  
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.46, no.-, pp.93-101, 1997 (Peer-Reviewed Journal)
- XXI. **The Pair of Generalized Ruled Surfaces Under the Symmetric Homothetic Motion in the Euclidean  $n$ -Space  $E_n$  and Their Sectional Curvatures**  
AYDEMİR İ.  
JOURNAL OF SCIENCES OF ONDOKUZ MAYIS UNIVERSITY, vol.8, no.1, pp.11-23, 1997 (Peer-Reviewed Journal)
- XXII. **On the Pair of Generalized Ruled Surfaces Under the Symmetric Homothetic Motion of Order  $k$  in the Euclidean Space  $E_n$**   
AYDEMİR İ., KURUOĞLU N., ÇALIŞKAN M.  
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.41, no.-, pp.13-26, 1992 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **A New Method to Obtain The Position Vector of Slant Helices in Lorentz-Minkowski 3-Space**  
YERLİKAYA F., AYDEMİR İ.  
16th International Geometry Symposium, Manisa, Turkey, 4 - 07 July 2018
- II. **Derivative Equations of Timelike Ruled Surfaces in  $R_1$ - $R_n$**   
AYDEMİR İ., KURUOĞLU N.  
International Conference on Computational and Statistical Methods in Applied Sciences, Samsun, Turkey, 9 - 11 November 2017
- III. **The Intersection of Two Null Scrolls**  
AYDEMİR İ., KARAAHMETOĞLU S.  
International Conference on Computational and Statistical Methods in Applied Sciences, Samsun, Turkey, 9 - 11 November 2017
- IV. **Some Characterizations for the Scroll Surfaces Via Bishop II Frames**  
YERLİKAYA F., KARAAHMETOĞLU S., AYDEMİR İ.  
International Conference on Computational and Statistical Methods in Applied Sciences, Samsun, Turkey, 9 - 11 November 2017
- V. **Some Characterization for the Scroll Surfaces Via Bishop II Frame**  
YERLİKAYA F., Karahmetoğlu S., AYDEMİR İ.  
International Conference on Computational and Statistical Methods in Applied Sciences, Samsun, Turkey, 9 - 11 November 2017
- VI. **Bertrand-B Curves in 3 Dimensional Riemannian Space Forms**  
YERLİKAYA F., Karahmetoğlu S., AYDEMİR İ.  
International Conference on Computational and Statistical Methods in Applied Sciences, Samsun, Turkey, 9 - 11 November 2017
- VII. **Bertrand-B Curves in 3-Dimensional Minkowski Space**  
Giden Salihoğlu E., AYDEMİR İ.  
15th International Geometry Symposium, Amasya, Turkey, 3 - 06 July 2017

- VIII. **A New Perspective to the Fundamental Theorem of Non-Null Curves in 3-Dimensional Minkowski Space**  
YERLİKAYA F., AYDEMİR İ.  
15th International Geometry Symposium, Amasya, Turkey, 3 - 06 July 2017
- IX. **A New Method to Obtain Curves According to Bishop Frames**  
YERLİKAYA F., Karaahmetoğlu S., AYDEMİR İ.  
15th International Geometry Symposium, Amasya, Turkey, 3 - 06 July 2017
- X. **On the Transversal Intersection of Special Surfaces of Timelike Mannheim Curve Pair**  
Karaahmetoğlu S., YERLİKAYA F., AYDEMİR İ.  
15th International Geometry Symposium, Amasya, Turkey, 3 - 06 July 2017
- XI. **Determination of Bertrand Curves in 3-Dimensional Minkowski Space  $R_1^3$**   
Şimşek G., AYDEMİR İ.  
15th International Geometry Symposium, Amasya, Turkey, 3 - 06 July 2017
- XII. **A New Method to Obtain Special Curves in Euclidean 3 Space**  
YERLİKAYA F., Karaahmetoğlu S., AYDEMİR İ.  
14th International Geometry Symposium, Denizli, Turkey, 25 - 28 May 2016
- XIII. **Minkowski 3 Uzayında Spacelike Bertrand Eğri Çiftlerinin Yeni Karakterizasyonları**  
YERLİKAYA F., Karaahmetoğlu S., AYDEMİR İ.  
13. GEOMETRİ SEMPOZYUMU, Turkey, 27 - 30 July 2015
- XIV. **Mannheim Eğri Çiftinin Oluşturduğu Regle Yüzeylerin Arakesitleri**  
Karaahmetoğlu S., YERLİKAYA F., AYDEMİR İ.  
13. GEOMETRİ SEMPOZYUMU, Turkey, 27 - 30 July 2015
- XV. **On Intersections of Surfaces Constructed on Curves**  
Karaahmetoğlu S., YERLİKAYA F., AYDEMİR İ.  
11. GEOMETRİ SEMPOZYUMU, Turkey, 1 - 05 July 2013
- XVI. **New Characterizations of The Timelike Bertrand Pairs in Minkowski Space**  
AYDEMİR İ., YERLİKAYA F., KARAAHMETOĞLU S.  
XI. Geometri Sempozyumu, Ordu, Turkey, 1 - 05 July 2013
- XVII. **New Characterizations of The Timelike Bertrand Pairs in Minkowski 3-Space**  
AYDEMİR İ., YERLİKAYA F., Karaahmetoğlu S.  
11. GEOMETRİ SEMPOZYUMU, Turkey, 01 July 2013 - 05 July 2012
- XVIII. **The Space-Like Ruled Surfaces Generated by Frenet Vectors of a Curve in The Minkowski Space**  
ORBAY K., AYDEMİR İ.  
VII. Geometri Sempozyumu, Kırşehir, Turkey, 7 - 10 July 2009
- XIX. **Time-Like Ruled Surfaces with Space-Like Directional Vector in the Minkowski Space  $R_3^1$**   
AYDEMİR İ., ORBAY K.  
IV. International Geometry Symposium, Zonguldak, Turkey, 17 - 21 July 2006
- XX.  **$R_3^1$  Minkowski Uzayında Frenet Vektörlerinin Ürettiği Time-Like Regle Yüzeyler**  
AYDEMİR İ., ORBAY K.  
III. Geometri Sempozyumu, Eskişehir, Turkey, 4 - 06 July 2005
- XXI. **Minkowski Uzayında Time-Like Doğrultman Uzaylı Genelleştirilmiş Time-Like Regle Yüzeylerin Dağılım Parametresi Üzerine**  
AYDEMİR İ., KURUOĞLU N.  
Sakarya Üniversitesi, Matematik Sempozyumu, Adapazarı, Turkey, 11 - 13 February 1997, pp.172-176
- XXII.  **$R_n^1$  n-Boyutlu Minkowski Uzayında Time-Like Hiperregle Yüzeyler Üzerine**  
TOSUN M., AYDEMİR İ., KURUOĞLU N.  
Sakarya Üniversitesi, Matematik Sempozyumu, Sakarya, Turkey, 11 - 13 September 1997
- XXIII. **On the  $(k_1)$ -Dimensional Space-Like Ruled Surface in the Minkowski Space  $R_n^1$**   
TOSUN M., AYDEMİR İ.  
Sakarya Üniversitesi, Matematik Sempozyumu, Sakarya, Turkey, 19 - 21 September 1996, vol.1, pp.231-238
- XXIV. **Minkowski Uzayında Time-Like Doğrultman Uzaylı Genelleştirilmiş Time-Like Regle Yüzeyler**

KURUOĞLU N., AYDEMİR İ.

Sakarya Üniversitesi Matematik Sempozyumu, Sakarya, Turkey, 19 - 21 September 1996, vol.1, pp.183-186

XXV. **Properties of 2 Dimensional Space-Like Ruled Surface in the Minkowski Space  $Rn_1$**

TOSUN M., AYDEMİR İ.

IX. Ulusal Matematik Sempozyumu, İstanbul, Turkey, 2 - 06 September 1996

XXVI. **On 2 -Dimensional Time-Like Ruled Surface in the Minkowski Space  $Rn_1$**

TOSUN M., AYDEMİR İ.

Balıkesir Üniversitesi, Matematik Sempozyumu, Balıkesir, Turkey, 23 - 26 May 1996

XXVII. **On the Pair of Generalized Ruled Surfaces Under the Symmetric Homothetic Motion of Order k in the Euclidean Space  $E_n$**

AYDEMİR İ., KURUOĞLU N., ÇALIŞKAN M.

Türk Matematik Derneği VI. Ulusal Matematik Sempozyumu, Cyprus (Kktc), 8 - 12 September 1993