

## Assoc. Prof. AYŞE YILMAZ CEYLAN

### Personal Information

Office Phone: [+90 242 310 3812](tel:+902423103812)

Email: [ayilmazceylan@akdeniz.edu.tr](mailto:ayilmazceylan@akdeniz.edu.tr)

Web: <https://avesis.akdeniz.edu.tr/ayseyilmaz>

Address: AKDENİZ ÜNİVERSİTESİ FEN FAK. B BLOK ODA NO: B1-7 KAMPÜS ANTALYA

### International Researcher IDs

ORCID: 0000-0002-8051-2879

Yoksis Researcher ID: 22179

### Biography

Ayşe Yılmaz Ceylan has a PhD degree in Mathematics. Dr. Yılmaz Ceylan currently serves as a doctor lecturer at University of Akdeniz. Her research interests include differential geometry, geometric design.

### Education Information

Doctorate, Akdeniz University, Institute of Science, Matematik, Turkey 2010 - 2015

Postgraduate, Akdeniz University, Institute of Science, Matematik, Turkey 2007 - 2009

Undergraduate, Bursa Uludağ University, Fen Fakültesi, Matematik, Turkey 2003 - 2007

### Foreign Languages

English, C1 Advanced

Spanish, B1 Intermediate

### Certificates, Courses and Trainings

Other, TÜBİTAK, Akdeniz Üniversitesi, 2015

### Dissertations

Doctorate, GENELLEŞTİRİLMİŞ CARTAN-VRANCEANU MANİFOLDLARINDAKİ BAZI EĞRİLERİN GEOMETRİSİ, Akdeniz University, Faculty of Science, Matematik, 2015

Postgraduate, BEZİER EĞRİLERİ VE BEZİER YÜZEYLERİ, Akdeniz University, Faculty of Science, Matematik, 2009

### Research Areas

Mathematics, Differential Geometry, Geometry, Natural Sciences

## Academic Titles / Tasks

Assistant Professor, Akdeniz University, Faculty of Science, Department of Mathematics, 2018 - Continues

Research Assistant, Akdeniz University, Faculty of Science, Department of Mathematics, 2009 - 2016

## Courses

Bilgisayar Tabanlı Grafikler için Eğeri ve Yüzeyler II, Postgraduate, 2019 - 2020

İşletme Matematiği 2, Undergraduate, 2019 - 2020

Uzmanlık Alan Dersi, Postgraduate, 2019 - 2020

Bitirme Çalışması II, Undergraduate, 2019 - 2020, 2018 - 2019

Mathematics II, Undergraduate, 2019 - 2020, 2018 - 2019

Seminer II, Postgraduate, 2019 - 2020

Bilgisayar Tabanlı Grafikler için Eğeri ve Yüzeyler I, Postgraduate, 2019 - 2020

Mathematics I, Undergraduate, 2019 - 2020, 2018 - 2019

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The Formulae and Symmetry Property of Bernstein Type Polynomials Related to Special Numbers and Functions**  
YILMAZ CEYLAN A., Simsek B.  
Symmetry, vol.16, no.9, 2024 (SCI-Expanded)
- II. **Generating functions for polynomials derived from central moments involving bernstein basis functions and their applications**  
Yılmaz Ceylan A., Şimşek Y.  
REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS, FÍSICAS Y NATURALES. SERIE A: MATEMÁTICAS, vol.118, no.57, pp.1-17, 2024 (SCI-Expanded)
- III. **Construction of a new class of Bezier-like curves**  
YILMAZ CEYLAN A.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.44, no.9, pp.7659-7665, 2021 (SCI-Expanded)
- IV. **Mannheim Partner Curves in Cartan-Vranceanu 3-space**  
Ceylan A., ERGİN A. A.  
FILOMAT, vol.30, no.4, pp.1089-1095, 2016 (SCI-Expanded)
- V. **On Bezier surfaces in three-dimensional Minkowski space**  
Ugail H., Marquez M. C., YILMAZ A.  
COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.62, no.8, pp.2899-2912, 2011 (SCI-Expanded)

## Articles Published in Other Journals

- I. **On Pedal and Contrapedal Curves of Bézier Curves**  
YILMAZ CEYLAN A., KARA M.  
konuralp journal of mathematics, vol.8, no.2, pp.217-221, 2021 (Peer-Reviewed Journal)
- II. **ON THE GEOMETRY OF RATIONAL BEZIER CURVES**  
YILMAZ CEYLAN A., Turhan T., Tükel G. O.  
HONAM MATHEMATICAL JOURNAL, vol.43, no.1, pp.88-99, 2021 (ESCI)
- III. **Curve Couples of Bézier Curves in Euclidean 2-Space**  
YILMAZ CEYLAN A.  
Fundamental Journal of Mathematics and Applications, vol.4, no.4, pp.245-250, 2021 (Peer-Reviewed Journal)

- IV. **BERTRAND MATE OF A BIHARMONIC CURVE IN CARTAN-VRANCEANU 3-DIMENSIONAL SPACE**  
YILMAZ CEYLAN A., ERGİN A. A.  
INTERNATIONAL ELECTRONIC JOURNAL OF GEOMETRY, vol.8, pp.45-52, 2015 (ESCI)

### **Refereed Congress / Symposium Publications in Proceedings**

- I. **Some notes on the curve couple of Bezier curve**  
Yılmaz Ceylan A., Kara M.  
The 3rd & 4th Mediterranean International Conference of Pure & Applied Mathematics and Related Areas (MICOPAM 2020-2021), Antalya, Turkey, 11 November 2021
- II. **FRENET FRAME FIELD OF T-BÉZIER CURVES**  
YILMAZ CEYLAN A., TURHAN T., ÖZKAN TÜKEL G.  
ICAIAME'21, Antalya, Turkey, 01 October 2021
- III. **Asymptotic Frame Fields of Rational Bézier Curves**  
ÖZKAN TÜKEL G., TURHAN T., YILMAZ CEYLAN A.  
ICAIAME'21, Antalya, Turkey, 01 October 2021
- IV. **RATIONAL BÉZIER CURVES ON 2-DIMENSIONAL ANTI DE SITTER SPACE**  
TURHAN T., ÖZKAN TÜKEL G., YILMAZ CEYLAN A.  
INTERNATIONAL ASIAN CONGRESS ON CONTEMPORARY SCIENCES-V, 01 June 2021, pp.467-473
- V. **A Characterization of the Involute Curves of Bézier Curve**  
YILMAZ CEYLAN A.  
4 th INTERNATIONAL CONFERENCE ON MATHEMATICS "An Istanbul Meeting for World Mathematicians", İstanbul, Turkey, 27 October 2020
- VI. **On Non-Null Rational Bézier Curves On 2-Dimensional De Sitter Space S<sup>12</sup>**  
YILMAZ CEYLAN A., TURHAN T., ÖZKAN TÜKEL G.  
4th International Conference on Mathematics "An İstanbul Meeting for World Mathematicians, İstanbul, Turkey, 27 October 2020
- VII. **Darboux Frame Fields of Rational Bezier Curves On the Two Dimensional Sphere**  
YILMAZ CEYLAN A., TURHAN T., ÖZKAN TÜKEL G.  
BILTEK CONFERENCE-III Current Studies on Science, Technology Social Sciences, Adana, Turkey, 19 - 20 June 2020
- VIII. **A Note on the Killing Magnetic Flow Equations of a Non-null Magnetic Vector Field**  
TURHAN T., ÖZKAN TÜKEL G., YILMAZ CEYLAN A.  
BILTEK CONFERENCE-III Current Studies on Science, Technology Social Sciences, Adana, Turkey, 19 - 20 June 2020
- IX. **Bezier-like Curves Based on Exponential Functions**  
YILMAZ CEYLAN A.  
8. INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS (IECMSA-2019)), Baku, Azerbaijan, 27 - 30 August 2019, pp.203
- X. **Curve Couples in Cartan-Vranceanu Space**  
YILMAZ CEYLAN A., ERGİN A. A.  
28. Ulusal Matematik Sempozyumu, Antalya, Turkey, 7 - 10 September 2015, pp.114
- XI. **Mannheim Curves in Cartan-Vranceanu 3-Space**  
YILMAZ CEYLAN A., ERGİN A. A.  
The 28th International Conference of The Jangjeon Mathematical Society, Antalya, Turkey, 15 - 19 May 2015, pp.86
- XII. **On the Biharmonic Meridian Curves of the Rotational Surfaces in Cartan-Vranceanu Space**  
YILMAZ CEYLAN A., ERGİN A. A.  
3rd International Eurasian Conference on Mathematical Sciences and Applications ( IECMSA-2014), Viyana, Austria, 25 - 28 August 2014, pp.312
- XIII. **On the Biharmonic Parallel Curves of the Rotational Surfaces in Cartan-Vranceanu Space**  
YILMAZ CEYLAN A., ERGİN A. A.  
3rd International Eurasian Conference on Mathematical Sciences and Applications ( IECMSA-2014), Viyana,

Austria, 25 - 28 August 2014, pp.311

**XIV. On Curve Couples of a Biharmonic Curve in Cartan-Vranceanu  $(2n + 1)$ -dimensional Space**

YILMAZ CEYLAN A., ERGİN A. A., Ugail H.

2nd International Eurasian Conference on Mathematical Sciences and Applications ( IECMSA-2013), Saray Bosna, Bosnia And Herzegovina, 26 - 29 August 2013, pp.236

**XV. On Curve Couples of a Biharmonic Curve in Cartan-Vranceanu 3-Dimensional Space**

YILMAZ CEYLAN A., ERGİN A. A., Ugail H.

XI.Geometri Sempozyumu, Ordu, Turkey, 1 - 05 July 2013, pp.24

**XVI. Minkowski Uzay Zamanında Yarı Ters Simetrik Reel Bir Matris İçin Rodrigues Formülüne Benzer Bir Formül**

Özdemir M., Ergin A. A., Yılmaz Ceylan A., Palancı O.

VIII.Geometri Sempozyumu, Antalya, Turkey, 29 April - 02 May 2010, pp.134-135

## Scientific Refereeing

Sakarya University Journal of Science (SAUJS), Other Indexed Journal, February 2019

Facta Universitatis Series Mathematics and Informatics, Other Indexed Journal, September 2018

Filomat, SCI Journal, October 2015

## Metrics

Publication: 27

Citation (WoS): 6

Citation (Scopus): 6

H-Index (WoS): 1

H-Index (Scopus): 1

## Congress and Symposium Activities

8. Uluslararası Avrasya Matematik Bilimleri ve Uygulamaları Konferansı (IECMSA-2019), Bakü, Attendee, Baku, Azerbaijan, 2019

28. Ulusal Matematik Sempozyumu, Attendee, Antalya, Turkey, 2015

The 28th International Conference of The Jangjeon Mathematical Society, Attendee, Antalya, Turkey, 2015

3. Uluslararası Avrasya Matematik Bilimleri ve Uygulamalar Konferansı (IECMSA-2014), Viyana, Attendee, Austria, 2014

2. Uluslararası Avrasya Matematik Bilimleri ve Uygulamaları Konferansı (IECMSA-2013), Saraybosna, Attendee, Turkey, 2013

XI.Geometri Sempozyumu, Ordu, Temmuz 2013, Attendee, ORDU, Turkey, 2013

VIII.Geometri Sempozyumu, Antalya, Antalya, Mayıs 2010, Attendee, ANTALYA, Turkey, 2010

VII.Geometri Sempozyumu, Kırşehir, Temmuz 2009, Attendee, KIRŞEHİR, Turkey, 2009

VI.Geometri Sempozyumu, Bursa, Temmuz 2008, Attendee, Bursa, Turkey, 2008