

Assoc. Prof. MURAT BABAARSLAN

Personal Information

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Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 2009 - 2013

Postgraduate, Suleyman Demirel University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), Turkey 2006 - 2009

Undergraduate, Suleyman Demirel University, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 2002 - 2006

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Sabit Eğimli Yüzeyler ve Uygulamaları, Ankara University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2013

Postgraduate, Null Bertrand Eğriler Üzerine, Suleyman Demirel University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), 2009

Research Areas

Mathematics

Academic Titles / Tasks

Associate Professor, Yozgat Bozok University, Fen-Edebiyat Fakültesi, Matematik, 2017 - Continues

Assistant Professor, Yozgat Bozok University, Fen-Edebiyat Fakültesi, Matematik, 2013 - 2017

Research Assistant, Yozgat Bozok University, Fen-Edebiyat Fakültesi, Matematik, 2007 - 2013

Academic and Administrative Experience

Yozgat Bozok University, 2020 - Continues

Yozgat Bozok University, 2019 - Continues

Yozgat Bozok University, 2019 - 2020

Yozgat Bozok University, 2018 - 2020

Courses

Diferansiyel Geometri I, Undergraduate, 2014 - 2015, 2015 - 2016, 2019 - 2020, 2020 - 2021
Analitik Geometri I, Undergraduate, 2020 - 2021
Bilimsel Araştırma İlkeleri, Postgraduate, 2019 - 2020, 2020 - 2021
Eğri ve Yüzeylerin Diferansiyel Geometrisi I, Postgraduate, 2015 - 2016, 2019 - 2020, 2020 - 2021
Matematik I, Undergraduate, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2019 - 2020, 2020 - 2021
Yarı-Riemann Geometriye Giriş I, Postgraduate, 2019 - 2020, 2020 - 2021
Matematik II, Undergraduate, 2013 - 2014, 2014 - 2015, 2019 - 2020
Diferansiyel Geometri II, Undergraduate, 2013 - 2014, 2014 - 2015, 2019 - 2020
Analitik Geometri II, Undergraduate, 2019 - 2020
Eğri ve Yüzeylerin Diferansiyel Geometrisi II, Postgraduate, 2019 - 2020
Yarı-Riemann Geometriye Giriş II, Postgraduate, 2019 - 2020
Tez Çalışması, Postgraduate, 2013 - 2014, 2014 - 2015, 2015 - 2016
Diferansiyel Geometri I (2. Öğretim), Undergraduate, 2013 - 2014, 2014 - 2015, 2015 - 2016
Uzmanlık Alan Dersi, Postgraduate, 2013 - 2014, 2014 - 2015, 2015 - 2016
Yüksek Matematik I, Undergraduate, 2014 - 2015, 2015 - 2016
Yüksek Matematik I (2. Öğretim), Undergraduate, 2015 - 2016
Yarı Riemann Geometri I, Postgraduate, 2015 - 2016
Matematik I (2. Öğretim), Undergraduate, 2013 - 2014, 2014 - 2015, 2015 - 2016
Bitirme Tezi I (2.Öğretim), Undergraduate, 2013 - 2014, 2014 - 2015
Hareket Geometrisi I, Undergraduate, 2013 - 2014, 2014 - 2015
Bitirme Tezi I, Undergraduate, 2013 - 2014, 2014 - 2015
Matematik II (2.Öğretim), Undergraduate, 2013 - 2014, 2014 - 2015
Diferansiyel Geometri II (2.Öğretim), Undergraduate, 2013 - 2014, 2014 - 2015
Yüksek Matematik II, Undergraduate, 2014 - 2015
Elemanter Diferansiyel Geometri I, Postgraduate, 2013 - 2014, 2014 - 2015
Hareket Geometrisi II, Undergraduate, 2013 - 2014, 2014 - 2015
Bitirme Tezi II (2.Öğretim), Undergraduate, 2013 - 2014, 2014 - 2015
Bitirme Tezi II, Undergraduate, 2013 - 2014, 2014 - 2015
Elemanter Diferansiyel Geometri II, Postgraduate, 2013 - 2014, 2014 - 2015
Temel Matematik II, Undergraduate, 2013 - 2014
Temel Matematik I, Undergraduate, 2013 - 2014
Diferansiyel Geometri I, Undergraduate, 2013 - 2014
Diferansiyel Denklemler II, Undergraduate, 2013 - 2014

Advising Theses

BABAARSLAN M., MINKOWSKI 4-UZAYINDA SPACE-LIKE DÖNEL YÜZEYLER ÜZERİNDEKİ SPACE-LIKE LOKSODROMLAR, Postgraduate, M.SELVİ(Student), 2021
Babaarslan M., MINKOWSKI 4-UZAYINDAKİ HELİKOİDAL YÜZEYLER ÜZERİNDEKİ UZAYSAL LOKSODROMLARIN KARAKTERİZASYONLARI, Postgraduate, R.GENÇ(Student), 2021
BABAARSLAN M., 4-boyutlu öklid uzayında helikoidal yüzeyler ve değişken yarıçaplı tüpler üzerindeki loksodromlar, Postgraduate, H.SEVDA(Student), 2020
BABAARSLAN M., MINKOWSKI 4-UZAYINDA TIME-LIKE DÖNEL YÜZEYLER ÜZERİNDEKİ SPACE-LIKE VE TIME-LIKE LOKSODROMLAR, Postgraduate, M.GÜMÜŞ(Student), 2020
BABAARSLAN M., Minkowski 3-uzayında helikoidal yüzeyler üzerindeki loksodromlar, Postgraduate, M.KAYACIK(Student), 2015

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Space-like Loxodromes on the Canal Surfaces in Minkowski 3-Space**
SÖNMEZ N., BABAARSLAN M.
FILOMAT, vol.32, no.14, pp.4821-4839, 2018 (Journal Indexed in SCI)
- II. **Time-like Loxodromes on Helicoidal Surfaces in Minkowski 3-Space**
BABAARSLAN M., Kayacik M.
FILOMAT, vol.31, no.14, pp.4405-4414, 2017 (Journal Indexed in SCI)
- III. **Differential Equation of the Loxodrome on a Helicoidal Surface**
BABAARSLAN M., YAYLI Y.
JOURNAL OF NAVIGATION, vol.68, no.5, pp.962-970, 2015 (Journal Indexed in SCI)
- IV. **Time-Like Constant Slope Surfaces and Space-Like Bertrand Curves in Minkowski 3-Space**
BABAARSLAN M., YAYLI Y.
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES INDIA SECTION A-PHYSICAL SCIENCES, vol.84, no.4, pp.535-540, 2014 (Journal Indexed in SCI)
- V. **Space-like loxodromes on rotational surfaces in Minkowski 3-space**
BABAARSLAN M., YAYLI Y.
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.409, no.1, pp.288-298, 2014 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **On parametrizations of loxodromes on time-like rotational surfaces in Minkowski space-time**
BABAARSLAN M., GÜMÜŞ M.
Asian-European Journal of Mathematics, vol.14, 2021 (Journal Indexed in ESCI)
- II. **Differential Equations of the Space-Like Loxodromes on the Helicoidal Surfaces in Minkowski 3-Space**
BABAARSLAN M., Kayacik M.
DIFFERENTIAL EQUATIONS AND DYNAMICAL SYSTEMS, vol.28, no.2, pp.495-512, 2020 (Journal Indexed in ESCI)
- III. **A Note On Loxodromes On Helicoidal Surfaces In Euclidean n-Space**
BABAARSLAN M.
APPLIED MATHEMATICS E-NOTES, vol.20, pp.458-461, 2020 (Journal Indexed in ESCI)
- IV. **LOXODROMES ON HELICOIDAL SURFACES AND TUBES WITH VARIABLE RADIUS IN E-4**
BABAARSLAN M.
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.68, no.2, pp.1950-1958, 2019 (Journal Indexed in ESCI)
- V. **SPLIT QUATERNIONS AND TIME-LIKE CONSTANT SLOPE SURFACES IN MINKOWSKI 3-SPACE**
BABAARSLAN M., YAYLI Y.
INTERNATIONAL JOURNAL OF GEOMETRY, vol.8, no.1, pp.57-71, 2019 (Refereed Journals of Other Institutions)
- VI. **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-Serie Noua-Matematica, vol.63, no.2, pp.323-338, 2017 (Refereed Journals of Other Institutions)
- VII. **Loxodromes on Canal Surfaces in Euclidean 3-space**
BABAARSLAN M.
Annual of Sofia University "St. Kliment Ohridski" Faculty of Mathematics and Informatics, vol.103, pp.97-103, 2016 (Refereed Journals of Other Institutions)
- VIII. **Time-like Loxodromes on Rotational Surfaces in Minkowski 3-space**
BABAARSLAN M., MUNTEANU M. I.
Analele Stiintifice Ale Universitatii Al I Cuza Din Iasi-Serie Noua-Matematica, vol.61, no.2, pp.471-484, 2015 (Refereed Journals of Other Institutions)
- IX. **12th International Conference on Geometry and Applications Abstracts**

BABAARSLAN M.

JOURNAL OF GEOMETRY, vol.106, no.3, pp.617-647, 2015 (Journal Indexed in ESCI)

- X. **On Helices and Bertrand Curves in Euclidean 3 space**
BABAARSLAN M., YAYLI Y.
Mathematical Applications, vol.18, no.1, pp.1-11, 2013 (Refereed Journals of Other Institutions)
- XI. **Split Quaternions and Spacelike Constant Slope Surfaces in Minkowski 3 Space**
BABAARSLAN M., YAYLI Y.
International Journal of Geometry, vol.2, no.1, pp.23-33, 2013 (Refereed Journals of Other Institutions)
- XII. **On Bertrand Curves and Constant Slope Surfaces According to Darboux Frame**
BABAARSLAN M., TANDOĞAN Y. A., YAYLI Y.
JOURNAL OF GEOMETRY, vol.103, no.2, pp.347-366, 2012 (Refereed Journals of Other Institutions)
- XIII. **A Note on Bertrand Curves and Constant Slope Surfaces According to Darboux Frame**
BABAARSLAN M., TANDOĞAN Y. A., YAYLI Y.
Journal of Advanced Mathematical Studies, vol.5, no.1, pp.87-96, 2012 (Refereed Journals of Other Institutions)
- XIV. **A New Approach to Constant Slope Surfaces with Quaternions**
BABAARSLAN M., YAYLI Y.
ISRN Geometry, vol.2012, pp.1-8, 2012 (Refereed Journals of Other Institutions)
- XV. **The Characterizations of Constant Slope Surfaces and Bertrand Curves**
BABAARSLAN M., YAYLI Y.
International Journal Of Physical Sciences, vol.6, no.8, pp.1868-1875, 2011 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **Loxodromes on Space-like Rotations Surfaces in E4_1**
BABAARSLAN M., SELVİ M.
17th International Geometry Semposium, 19 - 22 June 2019
- II. **Loxodromes on Time-like Rotations Surfaces in E4_1**
BABAARSLAN M., GÜMÜŞ M.
17th International Geometry Semposium, 19 - 22 June 2019
- III. **Space-Like Loxodromes on Helicoidal Surfaces in E4**
BABAARSLAN M., SÖNMEZ N.
17 th International Geometry Symposium, Erzincan, Turkey, 19 - 22 June 2019
- IV. **Space-like Loxodromes on Helicoidal Surfaces**
BABAARSLAN M., KAYACIK M.
2nd International Scientific and Vocational Studies Congress, 5 - 08 July 2018
- V. **Loxodromes on Helicoidal Surfaces**
BABAARSLAN M., YAYLI Y.
2nd International Scientific and Vocational Studies Congress, 5 - 08 July 2018
- VI. **Differential Equations of Space-Like Loxodromes on Canal Surfaces in Minkowski 3-Space**
SÖNMEZ N., BABAARSLAN M.
16 th International Geometry Symposium, Manisa, Turkey, 4 - 07 July 2018
- VII. **Loxodromes on Helicoidal and Canal Surfaces in Euclidean 4-Space**
BABAARSLAN M.
16th International Geometry Semposium, 4 - 07 July 2018
- VIII. **Split Kuaterniyonlar ve Time-Like Sabit Eğimli Yüzeyler**
BABAARSLAN M., YAYLI Y.
12. Ankara Matematik Günleri, Turkey, 25 - 26 May 2017
- IX. **Loxodromes on Canal Surfaces**
BABAARSLAN M.

- 12th International Conference on Geometry and Applications, Varna, Bulgaria, 1 - 05 September 2015
- X. **3 Boyutlu Minkowski Uzayındaki Helikoidal Yüzeyle Üzerindeki Time like Loksodromlar**
BABAARSLAN M., MUSTAFA K.
13. Geometri Sempozyumu, İstanbul, Turkey, 27 - 30 July 2015
- XI. **A Study on Space like Bertrand Curves and Time like Constant Slope Surfaces in 3 Dimensional Minkowski Space**
BABAARSLAN M., YAYLI Y.
XVIII. Geometrical Seminar, Vrnjacka Banja, Serbia, 25 - 28 May 2014
- XII. **Spacelike Constant Slope Surfaces and Bertrand Curves in E31**
BABAARSLAN M., YAYLI Y.
10. Geometri Sempozyumu, Balıkesir, Turkey, 13 June - 16 August 2012
- XIII. **Split Quaternions and Constant Slope Surfaces in E31**
BABAARSLAN M., YAYLI Y.
Fifth Saudi Science Conference, Mekke, Saudi Arabia, 16 - 18 April 2012
- XIV. **On Bertrand Curves and Constant Slope Surfaces According to Darboux Frame**
BABAARSLAN M., TANDOĞAN Y. A. , YAYLI Y.
10th International Conference on Geometry and Applications, Varna, Bulgaria, 3 - 09 September 2011
- XV. **A New Approach to Constant Slope Surfaces with Quaternions**
BABAARSLAN M., YAYLI Y.
International Conference on Applied Analysis and Algebra, İstanbul, Turkey, 29 June - 02 July 2011
- XVI. **Constant Slope Surfaces and Bertrand Curves in Euclidean 3 Space**
BABAARSLAN M., YAYLI Y.
XVI. Geometrical Seminar, Vrnjacka Banja, Serbia, 20 - 25 September 2010
- XVII. **Spherical Images Helices and Bertrand Curves**
BABAARSLAN M., YAYLI Y.
23. Ulusal Matematik Sempozyumu, Kayseri, Turkey, 4 - 07 August 2010
- XVIII. **Helices and Bertrand Curves**
BABAARSLAN M., YAYLI Y.
8. Geometri Sempozyumu, Antalya, Turkey, 29 April - 02 May 2010

Citations

Total Citations (WOS):23

h-index (WOS):3