

## Prof. Ayhan Tutar

### Personal Information

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### Education Information

Doctorate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 1989 - 1994

Postgraduate, Inonu University, Fen Bilimleri Enstitüsü, Matematik (Yl) (Tezli), Turkey 1987 - 1989

Undergraduate, Inonu University, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 1982 - 1986

### Dissertations

Doctorate, IL3 lorentz uzayında küresel eğriler ve joachimsthal teoremi, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Matematik (Dr), 1994

Postgraduate, Düzlemsel kinematikte homotetik hareketler için Holdutch Teoremi, Inonu University, Fen Bilimleri Enstitüsü, Matematik (Yl) (Tezli), 1989

### Research Areas

Differential Geometry, Geometry

### Academic Titles / Tasks

Professor, Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2015 - Continues

Associate Professor, Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2010 - 2015

Assistant Professor, Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 1996 - 2010

### Academic and Administrative Experience

Ondokuz Mayıs University, 1997 - 2000

### Courses

Doğrusal Cebir, Undergraduate, 2017 - 2018

Lorentz Geometrisi, Postgraduate, 2017 - 2018

Analitik Geometri I, Undergraduate, 2017 - 2018

Tensör Geometrisi I, Doctorate, 2017 - 2018

Lineer Cebir, Undergraduate, 2017 - 2018

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

- I. **On Relaxed Elastic Lines of the Second Type on an Oriented Surface in the Galilean Space  $G(3)$**   
Sarioğlu A., Stachel H., Tutar A.  
RESULTS IN MATHEMATICS, vol.71, no.3-4, pp.955-982, 2017 (SCI-Expanded)
- II. **The Steiner Formula and the Polar Moment of Inertia for the Closed Planar Homothetic Motions in Complex Plane**  
Tutar A., Sener O.  
ADVANCES IN MATHEMATICAL PHYSICS, vol.2015, 2015 (SCI-Expanded)
- III. **On the theory of strips and Joachimsthal theorem in the Lorentz space  $L_n$ , ( $n > 3$ )**  
Tutar A., Sener O.  
Iranian Journal of Science and Technology, Transaction A: Science, vol.36, no.3 SPL.ISS, pp.327-330, 2012 (SCI-Expanded)
- IV. **Relaxed elastic lines of second kind on oriented surface in Minkowski space**  
Tutar A., Sarioğlu A.  
APPLIED MATHEMATICS AND MECHANICS-ENGLISH EDITION, vol.27, no.11, pp.1481-1489, 2006 (SCI-Expanded)
- V. **The Steiner formula and the Holditch theorem for the homothetic motions on the planar kinematics**  
Tutar A., Kuruoğlu N.  
Mechanism and Machine Theory, vol.34, no.1, pp.1-6, 1999 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Characteristic Directions of Closed Planar Homotetic Inverse Motions**  
TUTAR A., ŞENER Ö., İNAN E.  
Konuralp Journal of Mathematics, vol.6, no.2, pp.240-245, 2018 (Peer-Reviewed Journal)
- II. **Charecteristic Directions of Closed Planar Homothetic Motions**  
TUTAR A., ŞENER Ö., İNAN E.  
International Journal of Applied Mathematics, vol.31, no.2, pp.199-210, 2018 (Scopus)
- III. **Characteristic directions of closed planar homothetic motions**  
Tutar A., Şener Ö., Inan E.  
International Journal of Applied Mathematics, vol.31, no.2, pp.199-210, 2018 (Scopus)
- IV. **On the Kinetic Energy of the Projection Curve fort he 1-Parameter Closed Spatial Homothetic Motion.**  
SOYLU S., TUTAR A.  
Journal of Applied Mathematics and Physics, vol.5, no.10, 2017 (Peer-Reviewed Journal)
- V. **On the Kinematics for the Closed Planar Homothetic Inverse Motions in Complex Plane**  
ŞENER Ö., TUTAR A.  
Journal of Applied Mathematics and Physics, 2017 (Peer-Reviewed Journal)
- VI. **The Steiner Formula and the Polar Moment of Inertia for the Closed Planar Motions in Complex Plane**  
ŞENER Ö., TUTAR A.  
Advances in Pure Mathematics, 2017 (Peer-Reviewed Journal)
- VII. **The Kinetic Energy Formula for the Closed Planar Homothetic Inverse Motions in Complex Plane**  
TUTAR A., ÖNDER Ş.  
Journal of Applied Mathematics and Physics, vol.3, pp.556-562, 2015 (Peer-Reviewed Journal)
- VIII. **The Kinetic Energy Formula For The Closed Planar Homothetic Motions In Complex Plane**  
TUTAR A., ÖNDER Ş.  
International Journal of Applied Mathematics, vol.4, no.28, pp.319-329, 2015 (Peer-Reviewed Journal)
- IX. **The Formula of Kinetic Energy for the Closed Planar Homothetic Direct Motions**  
TUTAR A., İNAN E.  
Journal of Applied Mathematics and Physics, vol.3, pp.563-568, 2015 (Peer-Reviewed Journal)

- X. **The Formula of Kinetic Energy for the Closed Planar Homothetic Inverse Motions**  
TUTAR A., İNAN E.  
JOURNAL OF APPLIED MATHEMATICS, vol.3, pp.213-222, 2015 (Scopus)
- XI. **On relaxed elastic lines of second kind on a curved hypersurface in the n-dimensional euclidean space**  
Sarioğlu A., Tutar A., Stachel H.  
Journal for Geometry and Graphics, vol.18, no.1, pp.81-95, 2014 (Scopus)
- XII. **On The 1 parameter Homothetic Motions On The Complex Plane**  
KURUOĞLU N., TUTAR A., DÜLDÜL M.  
Int. J. Appl. Math., vol.4, no.6, pp.439, 2001 (Peer-Reviewed Journal)
- XIII. **On the one parameter homothetic motions on the Lorentzian plane**  
TUTAR A., KURUOĞLU N.  
Bulletin of Pure and Applied Science, vol.18, no.2, pp.333-340, 1999 (Peer-Reviewed Journal)

### **Books & Book Chapters**

- I. **Trigonometri**  
TUTAR A., METİN G., MÜJDAT E.  
Metin Yayınları, 2015
- II. **Limit ve Süreklilik**  
TUTAR A., METİN G., MÜJDAT E.  
Metin Yayınları, 2014
- III. **İntegral**  
TUTAR A., METİN G., MÜJDAT E.  
Metin Yayınları, 2014

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

- I. **Holditch Type Theorem for Kinetic Energy of Projective Curve Under the 1-Parameter Spatial Motion**  
SOYLU S., TUTAR A., ŞENER Ö.  
6th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA- 2017), 15 - 18 August 2017
- II. **The Kinetic Energy Formula For The Closed Planar Homothetic Motions In Complex Plane**  
ŞENER Ö., TUTAR A., SOYLU S.  
6th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA- 2017), Budapest, Hungary, 15 - 18 August 2017
- III. **The Steiner Formula and the Polar Moment of Inertia for the Closed Planar Motions in Complex Plane**  
ŞENER Ö., TUTAR A., SOYLU S.  
15. Uluslararası Geometri Sempozyumu, 3 - 06 July 2017
- IV. **On the Kinetic Energy of the Projective Curve for the 1-Parameter Closed Spatial Motion" , 3-6 Temmuz 2017, Amasya Üniversitesi**  
SOYLU S., TUTAR A., ŞENER Ö.  
15. Uluslararası Geometri Sempozyumu, 3 - 06 July 2017
- V. **On the Kinematics for the Closed Planar Homothetic Inverse Motions in Complex Plane**  
TUTAR A., ŞENER Ö., SOYLU S.  
5th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2016), 16 - 19 August 2016
- VI. **Some Properties of the Inverse Homothetic Motion Characteristic Point and Minimal Action**

TUTAR A., SOYLU S., ŞENER Ö.

5th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2016), 16 - 19 August 2016

**VII. Some Properties of the homothetic motion Characteristic point and minimal action**

TUTAR A., SOYLU S.

INTERNATIONAL SCIENCE AND TECHNOLOGY CONFERENCE ISTEC 2016, 13 - 15 July 2016

**VIII. The Kinetic Energy Formula For The Closed Planar Homothetic Inverse Motions in Complex Plane**

TUTAR A., ŞENER Ö.

14th International Geometry Symposium, 25 - 28 May 2016

## **Supported Projects**

Tutar A., Project Supported by Higher Education Institutions, On Relaxed Elastic Lines of the Second Type on an Oriented Surface in the Galilean Space  $G_3$ , 2017 - 2023

Tutar A., Project Supported by Higher Education Institutions, 7th INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS (IECMSA-2018), 2018 - 2019