

# FATİH TAŞÇI

## PROF.

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International Researcher IDs

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### Learning Knowledge

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|----------------------------|---|
| Doctorate<br>Continues     | Yildiz Technical University, Matematik, Turkey              |
| Continues                  | Yildiz Technical University, Matematik Mühendisliği, Turkey |
| Undergraduate<br>Continues | Yildiz Technical University, Matematik Mühendisliği, Turkey |

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

- Generalized Gegenbauer-Humbert wavelets for solving fractional partial differential equations**  
Alkhalissi J. H. S., EMİROĞLU İ., Bayram M., SEÇER A., TAŞÇI F.  
ENGINEERING WITH COMPUTERS, vol.39, no.2, pp.1363-1374, 2023 (SCI-Expanded)
- A new operational matrix of fractional derivative based on the generalized Gegenbauer-Humbert polynomials to solve fractional differential equations**  
Alkhalissi J. H. S., Emiroglu İ., Bayram M., Secer A., Tasci F.  
ALEXANDRIA ENGINEERING JOURNAL, vol.60, no.4, pp.3509-3519, 2021 (SCI-Expanded)
- A Novel Mathematical Model to Calculate the Osteotomy in Ankylosing Spondylitis**  
Akpolat A. O., TAŞÇI F., Kilinc B. E., Celebi M. E., Balioglu M. B.  
Spine, vol.46, no.11, pp.760-764, 2021 (SCI-Expanded)
- The Taylor Matrix Method for Approximate Solution of Lane-Emden Equation with index-n**  
Güler C., Emiroğlu İ., Taşçi F., Sivri M.  
APPLIED MATHEMATICS & INFORMATION SCIENCES, vol.7, no.4, pp.1341-1344, 2013 (SCI-Expanded)
- Dynamical Response of Two Axially Pre-Strained System Comprising of a Covering Layer and a Half Space to Rectangular Time-Harmonic Forces**  
EMİROĞLU İ., TAŞÇI F., AKBAROV S.  
CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, vol.49, no.1, pp.47-68, 2009 (SCI-Expanded)
- Efficiency optimisation of gas turbine based cogeneration cycle**  
YILMAZ T., BAYRAKTAR S., TAŞÇI F.  
JOURNAL OF THE ENERGY INSTITUTE, vol.81, no.2, pp.110-113, 2008 (SCI-Expanded)
- The Lamb Problem for A half Space Covered with a Two Axially Prestretched Layer**  
TAŞÇI F.  
MECHANICS OF COMPOSITE MATERIALS, vol.47, 2005 (SCI-Expanded)
- The Lamb's problem for a half-space covered with the pre-stretched layer**  
AKBAROV S., Emiroglu I., TASCİ F.  
INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, vol.47, no.9, pp.1326-1349, 2005 (SCI-Expanded)

9. **On the discrete spectrum of non-self-adjoint Schrodinger differential equation with an operator coefficient**  
Bayramoglu M., Tasci F., Zeynalov D.  
JOURNAL OF MATHEMATICAL PHYSICS, vol.45, no.5, pp.1820-1825, 2004 (SCI-Expanded)
10. **Lamb problem for a half-space covered with a two-axially prestretched layer**  
Emiroglu I., TAsCI F., AKBAROV S.  
MECHANICS OF COMPOSITE MATERIALS, vol.40, no.3, pp.227-236, 2004 (SCI-Expanded)
11. **Asymptotics of the spectrum of the n-dimensional Schrödinger operator with operator potential**  
TAŞÇI F.  
Balkan Physics Letters, vol.6, pp.65-71, 1998 (SCI-Expanded)

### Articles Published in Other Journals

1. **Asymptotic behaviour of the weighted trace of the schrödinger operator**  
TAŞÇI F.  
International journal of differential equations and applications, vol.7, no.2, pp.195-201, 2003 (Peer-Reviewed Journal)
2. **Asymptotic Behaviour of the weighted trace of the Schrödinger Operator International journal of Differential equations and aplications**  
TAŞÇI F.  
International journal of Differential equations and aplications, 2003 (Peer-Reviewed Journal)
3. **Asymptotics of number of negative eigenvalues relative to small parameter of even order operator equation**  
TAŞÇI F.  
International journal of differential equations and Applications, vol.2, no.4, pp.355-362, 2001 (Peer-Reviewed Journal)
4. **Numerical solution of Differential equations by Spline functions**  
TAŞÇI F.  
Sakarya Üniversitesi Fen Bilimleri Dergisi, vol.5, no.1, pp.59-61, 2001 (Peer-Reviewed Journal)
5. **Asymptotics of number of negative eigenvalues relative to small parameter of even order operator equation**  
TAŞÇI F.  
International journal of Differential Equations and Applications, 2001 (Peer-Reviewed Journal)
6. **Asymptotics of the Spectrum of the n Dimensional Schrödinger Operator with Operator Potential**  
TAŞÇI F.  
Balkan Physics Letter, 2001 (Peer-Reviewed Journal)
7. **Higer Trace formulas for sturm\_Liouville Equations with Unbunded Operator Coefficient İn Finite Interval**  
TAŞÇI F.  
Ins. Math&Comp. sciences(Math. Ser.), vol.10, no.3, 1997 (Peer-Reviewed Journal)
8. **Bir İç Nokta Lineer programlama Algoritması**  
TAŞÇI F.  
Yıldız Teknik Üniversitesi Dergisi, no.2, pp.31-40, 1995 (Peer-Reviewed Journal)
9. **Sayısal Türev formüllerinde Ağırlık Katsayılarının Hızlı Bir Şekilde Hesaplanması ve Uygulamaları**  
TAŞÇI F.  
Yıldız Teknik Üniversitesi Dergisi, vol.4, no.1995, pp.71-77, 1995 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

1. **Numerical solution of fractional order PDEs using Gegenbauer Wavelet**  
Alkhalissi J. H. S., Emiroğlu İ., Taşçı F., Seçer A.  
7th International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 20 June 2018, pp.246
2. **Legendre-Wavelet Galerkin Method for the Solution of Fractional Order Differential Equations System**  
Seçer A., Taşçı F., Turan Dincel A., Tekercioğlu R.  
ICCESEN 2017, Antalya, Turkey, 04 October 2017, vol.1, no.1, pp.204
3. **A New Algorithm to the Solution of Multi Objective Linear Fractional Programming Problem with Interval Cost Coefficients Method**  
SİVRİ M., TAŞÇI F., GÜLER C., DALMAN H., GÜZEL N.  
International Conference and Workshop on Mathematical Analysis, Putrajaya, Malaysia, 27 May 2014, pp.10
4. **The fractional transportation problem with interval demand, supply and costs**  
Köçken H., Emiroğlu İ., Güler C., Taşçı F., Sivri M.  
International Conference on Mathematical Sciences and Istatistic 2013 (ICMSS 2013), Kuala-Lumpur, Malaysia, 5 - 07 February 2013, vol.1557, pp.339-344
5. **The Fractional Transportation Problem with Interval Demand, Supply and Costs**  
Kocken H., Emiroğlu İ., Gueler C., Taşçı F., Sivri M.  
International Conference on Mathematical Sciences and Statistics (ICMSS), Kuala-Lumpur, Malaysia, 5 - 07 February 2013, vol.1557, pp.339-344
6. **A Solution Proposal to the Transportation Problem with the Linear Fractional Objective Function**  
TAŞÇI F.  
Fourth International Conference on Modeling, Simulation and Applied Optimization, Kuala Lumpur, Malaysia, 19 April 2011, pp.78
7. **Solution Proposal to the Transportation Problem with the Linear Fractional objective Function, Modelling**  
Sivri M., Emiroglu I., Güler C., Tasci F.  
Simulation and Applied Optimization ((ICMSS2013), 2011 4th International Conference on Mathematical Sciences and statistics, Kuala-Lumpur, Malaysia, 19 - 22 April 2011, pp.78
8. **Numerical Algorithm used in the investigations of the three dimensional time-harmonic lamb's problem for pre-stressed stratified half-space**  
TAŞÇI F.  
II. Türk Dünyası Matematik Sempozyumu, Sakarya, Turkey, 04 July 2007, pp.24
9. **On the "resonance" values of the dynamical stress in the system comprises two-axially pre-stretched layer and half-space**  
TAŞÇI F., EMİROĞLU İ., Akbarov S.  
7th International Conference on Vibration Problems (ICOVP 2005), İstanbul, Turkey, 5 - 09 September 2005, vol.111, pp.469-470
10. **On the resonance values of the dynamical stress in the system comprises two-axially pre-stretched layer and half space**  
TAŞÇI F.  
The 7th International conference on Vibration problems, İstanbul, Turkey, 05 September 2005, pp.27
11. **The Lamb problem for a half-space covered with a biaxially presetreched layer**  
Emiroglu I., Tasci F., AKBAROV S.  
01 May 2004, pp.54
12. **The inverse scattering problem for first order system on a semi-axis**  
TAŞÇI F.  
International conference on mathematics and mechanics devoted to the 70-th anniversary of academician of NAS of Azerbaijan, hounered scientist, Prof. A.D. Gadjiev, Azerbaijan, pp.46

## Academic and Administrative Experience

|                  |                                     |  |
|------------------|-------------------------------------|--|
| 2015 - Continues | <b>Head of Department</b>           | Yıldız Teknik Üniversitesi, Matematik Mühendisliği |
| 2012 - Continues | <b>Head of Department</b>           | Yıldız Teknik Üniversitesi, Matematik Mühendisliği |
| 2014 - 2017      | <b>Fakülte Yönetim Kurulu Üyesi</b> | Yıldız Technical University, Faculty of Education  |
| 2014 - 2017      | <b>Fakülte Kurulu Üyesi</b>         | Yıldız Technical University, Faculty of Education  |
| 2008 - 2014      | <b>Deputy Head of Department</b>    | Yıldız Teknik Üniversitesi, Matematik Mühendisliği |

## Advising Theses

- TAŞÇI F., Nükleer Güç Santrallerinin Finansman Modeli Ve Matematiksel Yaklaşımlar, Doctorate, C.Terzioğlu(Student), 2017
- TAŞÇI F., Türk Musikisi Sembolik Verileri Üzerinde Hesaplamalı Ezgi Analizi, Doctorate, M.Kemal(Student), 2016
- TAŞÇI F., Üç Boyutlu Hücresel Dönüşümlerin Karakterizasyonu, Doctorate, F.Şah(Student), 2015
- TAŞÇI F., Adomian Ayrışım Metodu ile Isı Transferi Modellemesi, Postgraduate, Y.Karagöz(Student), 2012
- TAŞÇI F., Rüzgar Enerjisinden Elektrik Üretim Projelerinin Reel Opsiyonlar Yöntemi ile Değerlemesi, Postgraduate, C.Terzioğlu(Student), 2011
- TAŞÇI F., RFID' nin Lojistikteki Genel Kullanımı, Postgraduate, S.Arslan(Student), 2010
- TAŞÇI F., Rasyonel B-Spline ile Yüzey Oluşturma, Postgraduate, Ö.İpek(Student), 2003
- TAŞÇI F., Spline ile Eğri ve Yüzey Oluşturma, Postgraduate, R.Tekercioğlu(Student), 2001

## Metrics

- Publication: 32
- Citation (WoS): 45
- Citation (Scopus): 54
- H-Index (WoS): 4
- H-Index (Scopus): 4