

## Asst. Prof. Elif TARIM

### Personal Information

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### International Researcher IDs

ORCID: 0000-0002-4639-8312

Publons / Web Of Science ResearcherID: AAZ-6695-2020

Yoksis Researcher ID: 188504

### Education Information

Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Matematik, Turkey 1994 - 1999

Postgraduate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Matematik, Turkey 1992 - 1994

### Foreign Languages

English, B1 Intermediate

### Dissertations

Doctorate, Yapısal Değişirim İlkesinde En Üst ve En Alt Özdeğerlerin Bulunması, Örüt Kuramı ve Nicem Kimyasında Uygulamalar, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Matematik, 1999

Postgraduate, A Method For Solving Fluid Structure Integral Equations, Yıldız Technical University, Graduate School of Natural and Applied Sciences, Matematik, 1994

### Research Areas

Mathematics, Differential Equations, Partial Differential Equations, Numerical Analysis, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Yıldız Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2018 - Continues

Assistant Professor, Yıldız Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2004 - 2018

Lecturer PhD, Yıldız Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2000 - 2004

Research Assistant, Yıldız Technical University, Faculty Of Arts & Science, Department Of Mathematics, 1997 - 2000

Expert, Yıldız Technical University, Faculty Of Arts & Science, Department Of Mathematics, 1991 - 1997

## Courses

BİLGİSAYAR PROGRAMLAMA 2, Undergraduate, 2018 - 2019, 2017 - 2018  
KISMİ DİFERANSİYEL DENKLEMLER, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017  
Diferansiyel Denklemler, Undergraduate, 2018 - 2019  
KISMİ DİFERANSİYEL DENKLEMLERİN SAYISAL ÇÖZÜMLERİ, Postgraduate, 2017 - 2018, 2016 - 2017  
DİFERANSİYEL DENKLEMLER(GR.15), Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017  
DİFERANSİYEL DENKLEMLER(GR.17), Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017  
DİFERANSİYEL DENKLEMLER(GR.11), Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017  
MATEMATİK 1, Associate Degree, 2017 - 2018  
SAYISAL ANALİZ 2, Undergraduate, 2016 - 2017

## Advising Theses

TARIM E., Süperkritik Akışkan Ekstraksiyonun Matematiksel Modelinin Sonlu Farklar Yöntemiyle Çözümü, Postgraduate, E.GAMZE(Student), 2018  
TARIM E., Adveksiyon-Difüzyon Denklemlerinin Sonlu Farklar ile Çözümü, Postgraduate, A.MERVE(Student), 2015  
TARIM E., Diferansiyel Denklemlerin Yaklaşık Çözümü için Yeni Alternatif Homotopi Metodu ve Diğer Metotlarla Karşılaştırılması, Postgraduate, G.ASLANOVA(Student), 2014  
DEMİRİZ I., TARIM E., İki Yönde Eğrisel Yapıya Sahip Kalın Dikdörtgen Plağın Gerilme Analizine Ait Matematik Modelinin SEY ile İncelenmesi, Postgraduate, N.TOKATLI(Student), 2007

## Jury Memberships

Post Graduate, TEZ JÜRİ ÜYESİ, YILDIZ TEKNİK ÜNİVERSİTESİ/FEN BİLİMLERİ ENSTİTÜSÜ, June, 2009  
Post Graduate, TEZ JÜRİ ÜYESİ, T.C.İSTANBUL KÜLTÜR ÜNİVERSİTESİ/FEN BİLİMLERİ ENSTİTÜSÜ, June, 2006  
Post Graduate, TEZ JÜRİ ÜYESİ, T.C.İSTANBUL KÜLTÜR ÜNİVERSİTESİ/FEN BİLİMLERİ ENSTİTÜSÜ, June, 2006

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

- I. **Stress analysis for a rectangular thick plate of a composite material with a spatially locally curved structure under forced vibration**  
Akbarov S., Tarim E.  
MECHANICS OF COMPOSITE MATERIALS, vol.40, no.6, pp.509-518, 2004 (SCI-Expanded)
- II. **Three-dimensional stress analysis for a thick plate of a composite material with a spatially locally curved structure**  
Tarim E., Akbarov S.  
MECHANICS OF COMPOSITE MATERIALS, vol.39, pp.447-454, 2003 (SCI-Expanded)

## Articles Published in Other Journals

- I. **A new efficient method for solving nonlinear multi-point boundaryvalue problems**  
Aslanova G., Aslanov A., Tekin Tarim E.  
Nonlinear Science Letters A Mathematics, Physics and Mechanics, vol.5, pp.45-65, 2014 (Peer-Reviewed Journal)
- II. **Note on a nonlinear reaction-diffusion process**  
ASLANOVA G., TEKİN TARIM E.  
Transaction on IoT and Cloud Computing, vol.2, no.2, pp.14-22, 2014 (Peer-Reviewed Journal)
- III. **Bir Hermit İşleri ve Çizitinin En Alt Özdeğerinin Bulunması**

TEKİN TARIM E., Sinanoğlu O.

Fırat Üniv. Fen ve Mühendislik Bilimleri Dergisi, vol.16, no.2, pp.319-326, 2004 (Peer-Reviewed Journal)

IV. **Bir Hermit İşleri ve Çizitinin En Alt ve En Üst Özdeğerleri Arasındaki İzgesel Aralığın Bulunması**

TEKİN TARIM E., Sinanoğlu O.

Fırat Üniversitesi Fen ve Mühendislik Bilimleri Dergisi-Özel Sayı, vol.16, no.2, pp.311-317, 2004 (Peer-Reviewed Journal)

V. **Topolojik Olarak Sınıflandırılmış Çizitlerin ve Tüm İzsiz  $n \times n$  Hermit İşlerlerinin Kaç Adet Sınıfı Olduğunu Gösterir Formülün Bulunması**

TEKİN TARIM E., Sinanoğlu O.

Fırat Üniv. Fen ve Mühendislik Bilimleri Dergisi, vol.11, no.3, pp.345-350, 1999 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

I. **Finding the Formula for How Many Topological Equivalence Classes Are the Graphs Representing All Traceless  $n \times n$  Hermitian Operators**

Tarım E.

5th International Conference on Mathematical Advances and Applications-ICOMAA 2022, İstanbul, Turkey, 11 - 14 May 2022, pp.75

II. **Finding Spectral Spread and Spectral Radius of a Hermitian Operator and of its Graph**

Tarım E.

5th International Conference on Mathematical Advances and Applications-ICOMAA 2022, İstanbul, Turkey, 11 - 14 May 2022, pp.76

III. **Solution of Mathematical Model for Supercritical Fluid Extraction of Lavender Flower Essential Oil with Finite Difference Method**

MEMİŞ E. G., TARIM E.

International Conference on Mathematical Advances and Applications (ICOMAA-2018), İstanbul, Turkey, 11 May 2018, vol.1, pp.44

IV. **Dynamic mechanical analysis of PP/PET blends and artificial neural network modelling**

Kosavali Cavus F., Özcanlı Y., Beken M., Tarım E., Çoban E.

International Congress on Fundamental and Applied Sciences(ICFAS216), İstanbul, Turkey, 22 - 26 August 2016, pp.132-133

V. **Mathematical Modeling And Numerical Investigation of The Stress Analysis in The Rectangular Thick Plate From Composite Material With Spatially Periodically Curved Structure**

Tokatlı N., Tarım E., Demiriz I., Selim S.

The 4th Congress of the Turkic World Mathematical Society (TWMS), Baku, Azerbaijan, 1 - 03 June 2011, pp.457

VI. **Numerical Investigation Of Partial Differential Equations System With Variable Coefficient And Applied To Composite Material**

TARIM E.

Fourth International Conference of Applied Mathematics and Computing (FICAMC), Plovdiv, Bulgaria, 12 August 2007, pp.520

VII. **Yapısında İki Yönde Lokal Eğriliği Olan Kompozit Malzemedden Hazırlanmış Dikdörtgen Plağın Doğal Titreşimleri**

TARIM E.

XIII. ULUSAL MEKANİK KONGRESİ, Gaziantep, Turkey, 08 September 2003, pp.911-915

VIII. **Three-Dimensional Stress Analysis For a Thick Plate Fabricated From A Composite Material With a Spatial Locally Curved Structure**

TEKİN TARIM E., AKBAROV S.

MCM-2002 XII INTERNATIONAL CONFERENCE ON MECHANICS OF COMPOSITE MATERIAL, Riga, Latvia, 09 June 2002, pp.204

IX. **Topolojik Olarak Sınıflandırılmış Çizitlerin Kaç Adet Sınıfı Olduğunu Gösterir Formülün Bulunması**

TEKİN TARIM E., Sinanoğlu O.

I.TÜRK DÜNYASI MATEMATİK SEMPOZYUMU, Elazığ, Turkey, 29 June 1999, pp.188

## Supported Projects

TARIM E., MEMİŞ E. G., Project Supported by Higher Education Institutions, Süperkritik Akışkan Ekstraksiyonunun Matematiksel Modelinin Oluşturulması ve Sonlu Farklar Yöntemiyle Çözümü, 2018 - 2019

Akbarov S., Selim S., Demiriz I., Tarım E., Project Supported by Higher Education Institutions, Delik ve Çatlak İçeren Kompozit Plakların Çekme Durumundaki Yerel Stabilitate Kaybına Ait Matematik Modellemenin Geliştirilmesi ve Sonlu Elemanlar Yöntemi İle İncelenmesi, 2005 - 2008

## Memberships / Tasks in Scientific Organizations

TÜRK MATEMATİK DERNEĞİ, Member, 1993 - Continues

## Metrics

Publication: 16

Citation (WoS): 2

Citation (Scopus): 1

H-Index (WoS): 1

H-Index (Scopus): 1

## Awards

Tarım E., UBYT PROGRAMI TEŞVİK ÖDÜLLERİ, Tübitak, January 2005

Tarım E., UBYT PROGRAMI TEŞVİK ÖDÜLLERİ, Tübitak, January 2004