

# Prof. İbrahim EMİROĞLU

## Personal Information

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## International Researcher IDs

ORCID: 0000-0001-7772-8217

Publons / Web Of Science ResearcherID: AAZ-4531-2020

ScopusID: 6506640018

Yoksis Researcher ID: 173742

## Education Information

Doctorate, University of Hertfordshire, Elektrik Elektronik Fakültesi, Elektronik Müh., United Kingdom 1993 - 1997

Postgraduate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Matematik Müh., Turkey 1987 - 1990

Undergraduate, Yıldız Technical University, Mühendislik Fakültesi, Matematik Müh., Turkey 1982 - 1986

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, FINGERPRINT IMAGE ENHANCEMENT & RECOGNITION, University Of Hertfordshire, Elektrik Elektronik Müh., Bilgisayar Bilimleri, 1997

Postgraduate, MS-DOS XENIX İŞLETİM SİSTEMİ VE BASİC, COBOL PROGRAMLAMA DİLLERİ, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Matematik Müh., 1990

## Research Areas

Mathematics, Numerical Analysis, Natural Sciences

## Academic Titles / Tasks

Professor, Yıldız Technical University, Kimya Metalürji Fakültesi, Matematik Mühendisliği, 2016 - Continues

## Courses

Nümerik Analiz 1, Undergraduate, 2016 - 2017

Programlama Dilleri 2, Undergraduate, 2016 - 2017  
Nümerik Analiz 2, Undergraduate, 2016 - 2017  
Matematik Mantık ve Prob. Çözümü, Postgraduate, 2016 - 2017  
Matematik Müh. Tasarım Uygulamaları, Undergraduate, 2016 - 2017  
İleri Nümerik Analiz, Postgraduate, 2016 - 2017

## Advising Theses

EMİROĞLU İ., q-Deformasyonlu Diferansiyel denklemler ve onların sayısal çözümleri, Doctorate, G.Yener(Student), 2016  
EMİROĞLU İ., Bilgi Güvenliği Yöntemleri”, Yıldız Teknik Üniversitesi, Postgraduate, Ö.Altınpulluk(Student), 2016  
EMİROĞLU İ., Cam Kesme Problemine Çok Amaçlı Yaklaşım”, Yıldız Teknik Üniversitesi, (2015), Doctorate, M.Zahid(Student), 2015  
EMİROĞLU İ., Karayolu trafiğinde bir akıllı hız kesici sisteminin geliştirilmesi, Postgraduate, Z.Karagöz(Student), 2009  
EMİROĞLU İ., Görüntü işlemede morfolojik teknikler, Postgraduate, H.Emrah(Student), 2008  
EMİROĞLU İ., Optimizasyon teknikleri yöntemi ile oluklu üretim hattı problemi çözümü, Postgraduate, M.Gürbüz(Student), 2007  
EMİROĞLU İ., Görüntü işlemede inceltme algoritmaları, Postgraduate, A.Elilibol(Student), 2004  
EMİROĞLU İ., Burt tablolarının karşılaştırma analizi ile incelenmesi ve bir uygulama”, Yıldız Teknik Üniversitesi, Postgraduate, R.Şener(Student), 2003  
EMİROĞLU İ., Morfolojik görüntü işleme, Postgraduate, A.Deniz(Student), 2003  
EMİROĞLU İ., Linux işletim sistemi ve interaktif ders otomasyonu, Postgraduate, M.Ünal(Student), 2003  
EMİROĞLU İ., Uzaktan eğitim yöntem ve uygulamaları, Postgraduate, M.Bal(Student), 2001  
EMİROĞLU İ., Dijital görüntü işleme, Postgraduate, M.Gümüşer(Student), 2001  
EMİROĞLU İ., Wavelet transformasyonları ile görüntü sıkıştırma, Postgraduate, T.Saral(Student), 2000  
EMİROĞLU İ., Bir object request broker uygulaması, Postgraduate, C.Özgün(Student), 2000

## Jury Memberships

Associate Professor Exam, Doçentlik Sınavı, TOBB Üniversitesi, October, 2017  
Appointment to Academic Staff-Assistant Professorship, Yardımcı Doçentlik Kadrosuna Atama, Gelişim Üniversitesi, August, 2017  
Appointment to Academic Staff-Assistant Professorship, Prof. Kadrosuna Atama Jüri üyeliği, Yıldız Teknik Üniversitesi, July, 2017  
Associate Professor Exam, Doçentlik Sınavı Jürisi, Koç Üniversitesi, April, 2017  
Appointment to Academic Staff-Assistant Professorship, Yardımcı Doçentlik Kadrosuna Atama, Yıldız Teknik Üniversitesi, February, 2017

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

- I. **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)
- II. **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)
- III. **THE GENERALIZED GEGENBAUER-HUMBERTS WAVELET FOR SOLVING FRACTIONAL DIFFERENTIAL EQUATIONS**

Alkhalissi J. H. S., EMİROĞLU İ., SEÇER A., Bayram M.

THERMAL SCIENCE, vol.24, 2020 (SCI-Expanded)

- IV. **A Q-ANALOGUE OF THE MULTIPLICATIVE CALCULUS: Q-MULTIPLICATIVE CALCULUS**  
Yener G., EMİROĞLU İ.  
DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES S, vol.8, no.6, pp.1435-1450, 2015 (SCI-Expanded)
- V. **The Taylor Matrix Method for Approximate Solution of Lane-Emden Equation with index-n**  
Güler C., Emiroğlu İ., Taşçı F., Sivri M.  
APPLIED MATHEMATICS & INFORMATION SCIENCES, vol.7, no.4, pp.1341-1344, 2013 (SCI-Expanded)
- VI. **A Solution Proposal to the Interval Fractional**  
EMİROĞLU İ.  
Applied Mathematics & Information Sciences, vol.6, no.3, pp.567-571, 2012 (SCI-Expanded)
- VII. **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)
- VIII. **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)
- IX. **Lamb problem for a half-space covered with a two-axially prestretched layer**  
Emiroglu I., TASCİ F., AKBAROV S.  
MECHANICS OF COMPOSITE MATERIALS, vol.40, no.3, pp.227-236, 2004 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **A New Model for The Detection of Breast Cancer Using Neural Networks**  
Başçetin T. S., Emiroğlu İ.  
International Conference on Applied Analysis and Mathematical Modeling (ICAAMM19), İstanbul, Turkey, 10 - 13 March 2019, pp.212
- II. **Comparison of Image Classification Models in Neural Networks**  
Başçetin T. S., Emiroğlu İ.  
INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELLING (ICAAMM2019), İstanbul, Turkey, 10 - 13 March 2019, pp.211
- III. **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
- IV. **On the solution of Lane-Emden equation with index-n by Legendre polynomials**  
Güler C., Emiroğlu İ., Taşçı F., Sivri M.  
International conference and workshop on mathematical analysis, İstanbul, Turkey, 27 - 30 May 2014, pp.28
- V. **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
- VI. **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
- VII. **A solution Proposal to the Interval Fractional Transportation Problem**  
Güzel N., Emiroğlu İ., Taşçı F., Güler C., Sivri M.  
2. International Conference on Mathematics and Information Science, Sawhaj, Egypt, 10 - 13 September 2011,

pp.155

- VIII. **The Taylor Matrix Method for Approximate Solution of Lane-Emden Equation with index-n**  
Güler C., Emiroğlu İ., Taşçı F., Sivri M.  
International Conference on Applied Analysis and Mathematical Modelling, İstanbul, Turkey, 29 June - 02 July 2011,  
pp.261-262
- IX. **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
- X. **A Solution Proposal to the Transportation Problem with the Linear Fractional Objective Function**  
Güler C., Taşçı F., Emiroğlu İ., Sivri M.  
Fourth International Conference on Modelling Simulation and Applied Optimization (ICMSAO'11), Kuala-Lumpur, Malaysia, 19 - 21 April 2011, pp.1-7
- XI. **The Taylor Matrix Method for Approximate Solution of Lane-Emden Equation with index-n**  
Güler C., Emiroğlu İ., Taşçı F., Sivri M.  
International Conference on Applied Analysis and Mathematical Modelling, İstanbul, Turkey, 6 - 10 June 2011, pp.1
- XII. **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
- XIII. **The Lamb problem for a half-space covered with a biaxially presetreched layer**  
Emiroglu I., Tasci F., AKBAROV S.  
01 May 2004, pp.54
- XIV. **Comparison of Lossy Image Compression Methods**  
Emiroğlu İ., BAL M., Elibol A.  
International Conference on Signal Processing ICSP 2003, Çanakkale, Turkey, 03 September 2003, pp.177-181
- XV. **Uzaktan Eğitim Yöntem ve Uygulamaları**  
Emiroğlu İ., BAL M.  
Bilgi Teknolojileri Kongresi, Denizli, Turkey, 21 May 2003
- XVI. **An Automated-System for Continual Reforming and Developing of Quality in Education (Eksip)**  
ŞAYLI A., EMİROĞLU İ., ELİBOL A.  
Int. Conference on Innovation in Higher Education Centre for Technology in Learning and Teaching, Kiev, Ukraine, 16 May 2003, pp.1-4
- XVII. **An Internet Modal Automation System**  
Emiroğlu İ., BAL M., Elibol A., Olgun E.  
ICIHE International Conference on Innovation in Higher Education Centre for Technology in Learning and Teaching, Kiev, Ukraine, 12 May 2003
- XVIII. **Eğitimde Kaliteyi Sürekli Olarak İyileştirme Ve Geliştirme (Eksip) Otomasyonu**  
ŞAYLI A., EMİROĞLU İ., ELİBOL A.  
Bilgi Teknolojileri Kongresi, Denizli, Turkey, 01 May 2003, pp.32-37
- XIX. **Ders Takibinde Internet Modeli**  
Güler C., Elibol A., Olgun H., Emiroğlu İ.  
Bilgi Teknolojileri Kongresi, Denizli, Turkey, 4 - 05 May 2003, pp.111-112
- XX. **Pre-processing of fingerprint images**  
Emiroglu I., AKHAN M.  
Proceedings of the 1997 European Conference on Security and Detection, ECOS, London, Canada, 28 - 30 April 1997, pp.147-151
- XXI. **Flexible fingerprint identification system**  
AKHAN M., Emiroglu I., Bahari E.

Proceedings of the 1995 European Convention on Security and Detection, Brighton, United Kingdom, 16 - 18 May 1995, pp.284-287

## Supported Projects

EMİROĞLU İ., BAŞÇETİN T. S., Project Supported by Higher Education Institutions, DERİN ÖĞRENME YÖNTEMİYLE X-İŞİNİ GÖRÜNTÜLERİNDEN YAYGIN GÖĞÜS HASTALIKLARININ TESPİTİ, 2015 - 2021

EMİROĞLU İ., Project Supported by Higher Education Institutions, CAM KESME PROBLEMİNE ÇOK AMAÇLI YAKLAŞIM, 2014 - 2015

EMİROĞLU İ., Other International Funding Programs, OPTİMİZASYON TEKNİKLERİ YÖNETİMİ İLE CAM ÜRETİM HATTI PROBLEMİ, 2014 - 2015

## Metrics

Publication: 30

Citation (WoS): 43

Citation (Scopus): 62

H-Index (WoS): 4

H-Index (Scopus): 4

## Non Academic Experience

Yıldız Teknik Üniversitesi

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