

## Dr. Öğr. Üyesi MEHMET FATİH KARAASLAN

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: AAZ-5538-2020

ScopusID: 57188763459

Yoksis Araştırmacı ID: 185409

### Eğitim Bilgileri

Doktora, Yıldız Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, Türkiye 2010 - 2016

### Yabancı Diller

İngilizce, B2 Orta Üstü

### Sertifika, Kurs ve Eğitimler

Mesleki Eğitim, Matlab, Yıldız Teknik Üniversitesi, 2013

### Araştırma Alanları

Diferansiyel denklemler, Fonksiyonel Analiz, İntegral Denklemleri, İstatistik, Kısmi diferansiyel eşitlikler, Sayısal Analiz

### Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Marmara Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2023 - Devam Ediyor

Araştırma Görevlisi Dr., Yıldız Teknik Üniversitesi, Fen-Edebiyat Fakültesi, İstatistik Bölümü, 2016 - 2023

Araştırma Görevlisi, Yıldız Teknik Üniversitesi, Fen-Edebiyat Fakültesi, İstatistik Bölümü, 2009 - 2016

### Verdiği Dersler

İstatistik, Lisans, 2024 - 2025

Bilgisayar Programlama, Lisans, 2024 - 2025, 2023 - 2024

SQL Server ile Veri Tabanı Tasarımı, Lisans, 2024 - 2025, 2023 - 2024

Kesirli Diferansiyel Denklemler ve Uygulamaları, Yüksek Lisans, 2024 - 2025

Topluma Hizmet Uygulamaları, Lisans, 2023 - 2024

Calculus II, Lisans, 2023 - 2024, 2022 - 2023  
Matematik 1, Lisans, 2023 - 2024  
Sayısal Analiz, Lisans, 2022 - 2023  
Calculus I, Lisans, 2023 - 2024  
Lineer Cebir, Lisans, 2023 - 2024  
Diferansiyel Denklemler, Lisans, 2023 - 2024  
Mathematics I, Lisans, 2022 - 2023  
İstatistik, Lisans, 2022 - 2023  
Numerical Analysis, Lisans, 2021 - 2022  
Veri Tabanı, Lisans, 2021 - 2022, 2018 - 2019  
İstatistik , Lisans, 2021 - 2022

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Maximal  $L_p$ -regularity of two-term fractional differential equations with boundary conditions**  
Şahmurov V., Karaaslan M. F., Kurulay M.  
TWMS JOURNAL OF PURE AND APPLIED MATHEMATICS, cilt.14, sa.2, ss.1-14, 2023 (SCI-Expanded)
- II. **A performance assessment of an HDG method for second-order Fredholm integro-differential equation: existence-uniqueness and approximation**  
KARAASLAN M. F.  
TURKISH JOURNAL OF MATHEMATICS, cilt.45, sa.5, ss.2269-2281, 2021 (SCI-Expanded)
- III. **Solvability of the fractional Volterra-Fredholm integro differential equation by hybridizable discontinuous Galerkin method**  
KARAASLAN M. F.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, cilt.42, sa.16, ss.5626-5634, 2019 (SCI-Expanded)
- IV. **The accuracy of an HDG method for conservative fractional diffusion equations**  
KARAASLAN M. F.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, cilt.41, sa.17, ss.8201-8211, 2018 (SCI-Expanded)
- V. **A hybridizable discontinuous Galerkin method for a class of fractional boundary value problems**  
KARAASLAN M. F., Celiker F., KURULAY M.  
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, cilt.333, ss.20-27, 2018 (SCI-Expanded)
- VI. **Approximate solution of the Bagley-Torvik equation by hybridizable discontinuous Galerkin methods**  
KARAASLAN M. F., Celiker F., KURULAY M.  
APPLIED MATHEMATICS AND COMPUTATION, cilt.285, ss.51-58, 2016 (SCI-Expanded)

## Diğer Dergilerde Yayınlanan Makaleler

- I. **A numerical approach for Camassa-Holm equation using extended trial equation method**  
KARAASLAN M. F., KURULAY M.  
Tbilisi Mathematical Journal, ss.33-38, 2021 (Hakemli Dergi)
- II. **Numerical Solution of a Nonlocal Fractional Boundary Value Problem by HDG Method**  
KARAASLAN M. F.  
Journal of Engineering Technology and Applied Sciences, cilt.2, sa.3, ss.121-129, 2017 (Hakemli Dergi)
- III. **A Geometric Interpretation and Comparison of the Methods Of Ordinary Least Square OLS and Bivariate Lagrange Interpolation**  
ÇALIŞKAN ÇAVDAR Ş., AYDIN A. D., KARAASLAN M. F.  
Mathematical Theory and Modeling, cilt.5, sa.9, ss.1-16, 2015 (Hakemli Dergi)

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Dynamics of a vector--borne disease model with temporary immunity**  
Karaaslan M. F.  
7th INTERNATIONAL CONFERENCE ON MATHEMATICS "An Istanbul Meeting for World Mathematicians", İstanbul, Türkiye, 11 - 13 Temmuz 2023, ss.1
- II. **A customer churn prediction using KNN algorithm and logistic regression with Python**  
Karaaslan M. F., Büyükdoğan N. Y.  
6th INTERNATIONAL CONFERENCE ON MATHEMATICS "An Istanbul Meeting for World Mathematicians", İstanbul, Türkiye, 21 - 24 Haziran 2022, ss.4
- III. **A special Green-function for steady-state fractional differential equations with nonlocal boundary condition**  
Karaaslan M. F.  
5th INTERNATIONAL ONLINE CONFERENCE ON MATHEMATICS "An Istanbul Meeting for World Mathematicians", İstanbul, Türkiye, 1 - 03 Aralık 2021, ss.11
- IV. **Uniform separability of four-term fractional differential equations on real line**  
Karaaslan M. F., Kurulay M.  
8th International Congress on Fundamental and Applied Sciences, Antalya, Türkiye, 19 - 21 Ekim 2021, ss.1
- V. **A stability and existence-uniqueness results for the system of fractional-order mathematical model of COVID-19-disease**  
Karaaslan M. F., Kurulay M.  
4th International Conference on Mathematics "An Istanbul Meeting for World Mathematicians", İstanbul, Türkiye, 27 - 30 Ekim 2020, ss.23
- VI. **Some existence results of fractional boundary value problems**  
Karaaslan M. F.  
III.International Conference on Mathematics "An Istanbul Meeting for World Mathematicians", İstanbul, Türkiye, 3 - 05 Temmuz 2019, ss.181
- VII. **Convergence of the hybridizable discontinuous Galerkin method for two-point fractional boundary value problems**  
Karaaslan M. F.  
International Conference on Mathematics and Engineering, İstanbul, Türkiye, 10 - 12 Mayıs 2017, ss.172
- VIII. **A hybridizable discontinuous Galerkin method for the steady state fractional advection dispersion equation**  
Karaaslan M. F., Kurulay M.  
International Congress on Fundamental and Applied Sciences, İstanbul, Türkiye, 22 - 26 Ağustos 2016, ss.121
- IX. **Numerical solution of a singularly perturbed problem by hybridizable discontinuous Galerkin method**  
Karaaslan M. F.  
2nd International Conference on Analysis and its Applications, Kırşehir, Türkiye, 12 - 15 Temmuz 2016, ss.183
- X. **On Using of the Advection Diffusion Problem as Environmental Modelling**  
Kurulay M., Karaaslan M. F.  
1st International Conference on Environmental Science and Technology, Sarajevo, Bosna-Hersek, 9 - 13 Eylül 2015, ss.107
- XI. **Hybridizable discontinuous Galerkin method for convection-diffusion-reaction problems**  
Karaaslan M. F., Çeliker F., Kurulay M.  
Karatekin Mathematics Days 2014, Çankırı, Türkiye, 11 - 13 Haziran 2014, ss.197
- XII. **A Comparative Analysis of Galerkin and Hybridizable Discontinuous Galerkin Method On Second Order Differential Equation**  
Karaaslan M. F., Çeliker F., Kurulay M.  
2nd International Eurasian Conference on Mathematical Sciences and Applications, Sarajevo, Bosna-Hersek, 26 - 29 Ağustos 2013, ss.177

- XIII. **Hybridizable Discontinuous Galerkin Method for One Dimensional Problems**  
Karaaslan M. F., Kurulay M.  
International Conference on Applied Analysis and Mathematical Modelling, İstanbul, Türkiye, 2 - 05 Haziran 2013, ss.283
- XIV. **Multidimensional Comparison of Turkey and EU member states in terms of Basic Economic Indicators Post Global Financial Crisis**  
Çalışkan Çavdar Ş., Karaaslan M. F.  
8th International Symposium of Statistics, Eskişehir, Türkiye, 11 - 13 Ekim 2012, ss.110
- XV. **On solving a type of fractional Volterra integro differential equations using Homotopy Analysis Method**  
Karaaslan M. F., Kurulay M.  
1st International Eurasian Conference on Mathematical Sciences and Applications, Priştine, Kosova, 3 - 07 Eylül 2012, ss.126
- XVI. **Geometric perspective on the methods of bivariate Lagrange interpolation and OLS**  
Karaaslan M. F., Çalışkan Çavdar Ş.  
International Conference on Applied Analysis and Algebra, İstanbul, Türkiye, 20 - 24 Haziran 2012, ss.168
- XVII. **Discontinuous Galerkin Methods with An Application for Elliptic Problems**  
Karaaslan M. F., Kurulay M.  
International Conference on Applied Analysis and Algebra, İstanbul, Türkiye, 20 - 24 Haziran 2012, ss.168-169
- XVIII. **Parametrik Olmayan Basit Doğrusal Regresyon Modelinde Katsayıların Tahminlemesi**  
Karaaslan M. F., Karaman F.  
VII. İstatistik Günleri Sempozyumu, Ankara, Türkiye, 28 - 30 Haziran 2010, ss.103-104

## Bilimsel Dergilerdeki Faaliyetler

Journal of Engineering Technology and Applied Sciences, Editörler Kurulu Üyesi, 2016 - Devam Ediyor

## Bilimsel Hakemlikler

JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, SCI Kapsamındaki Dergi, Ekim 2021

TURKISH JOURNAL OF MATHEMATICS, SCI Kapsamındaki Dergi, Şubat 2020

JOURNAL OF COMPUTATIONAL METHODS IN SCIENCES AND ENGINEERING, ESCI Kapsamındaki Dergi, Ağustos 2019

ENGINEERING COMPUTATIONS : INTERNATIONAL JOURNAL FOR COMPUTER-AIDED ENGINEERING AND SOFTWARE, SCI Kapsamındaki Dergi, Eylül 2018

TURKISH JOURNAL OF MATHEMATICS, SCI Kapsamındaki Dergi, Ağustos 2018

ENGINEERING COMPUTATIONS : INTERNATIONAL JOURNAL FOR COMPUTER-AIDED ENGINEERING AND SOFTWARE, SCI Kapsamındaki Dergi, Nisan 2018

Journal of Engineering Technology and Applied Sciences, Diğer İndekslerce Taranan Dergi, Kasım 2017

Journal of Engineering Technology and Applied Sciences, Diğer İndekslerce Taranan Dergi, Eylül 2017

Journal of Engineering Technology and Applied Sciences, Diğer İndekslerce Taranan Dergi, Haziran 2017

Journal of Engineering Technology and Applied Sciences, Diğer İndekslerce Taranan Dergi, Ocak 2017

Arabian Journal of Mathematics, ESCI Kapsamındaki Dergi, Haziran 2016

## Kongre ve Sempozyum Katılımı Faaliyetleri

7th INTERNATIONAL CONFERENCE ON MATHEMATICS "An Istanbul Meeting for World Mathematicians", Katılımcı, İstanbul, Türkiye, 2023

6th INTERNATIONAL CONFERENCE ON MATHEMATICS "An Istanbul Meeting for World Mathematicians", Katılımcı,

İstanbul, Türkiye, 2022

5th INTERNATIONAL ONLINE CONFERENCE ON MATHEMATICS "An Istanbul Meeting for World Mathematicians",

Katılımcı, İstanbul, Türkiye, 2021

8th International Congress on Fundamental and Applied Sciences, Katılımcı, Antalya, Türkiye, 2021

4th International Conference on Mathematics "An Istanbul Meeting for World Mathematicians", Katılımcı, İstanbul, Türkiye, 2020

III. International Conference on Mathematics "An Istanbul Meeting for World Mathematicians", Katılımcı, İstanbul, Türkiye, 2019

6th International Congress on Fundamental and Applied Sciences , Katılımcı, Tirane, Arnavutluk, 2019

INTERNATIONAL CONFERENCE ON MATHEMATICS "An Istanbul Meeting for World Mathematicians, Katılımcı, İstanbul, Türkiye, 2018

5th International Congress on Fundamental and Applied Sciences, Katılımcı, Skopje, Makedonya, 2018

Differential Equations and Applications , Katılımcı, Brno, Çek Cumhuriyeti, 2017

International Congress on Fundamental and Applied Sciences, Katılımcı, Sarajevo, Bosna-Hersek, 2017

International Conference on Mathematics and Engineering, Katılımcı, İstanbul, Türkiye, 2017

International Congress on Fundamental and Applied Sciences, Katılımcı, İstanbul, Türkiye, 2016

2nd International Conference on Analysis and its Applications, Katılımcı, Kırşehir, Türkiye, 2016

V Congress of Mathematicians of Macedonia, Katılımcı, Ohrid, Makedonya, 2014

Karatekin Mathematics Days, Katılımcı, Çankırı, Türkiye, 2014

2nd International Eurasian Conference on Mathematical Sciences and Applications, Katılımcı, Sarajevo, Bosna-Hersek, 2013

International Conference on Applied Analysis and Mathematical Modeling, Katılımcı, İstanbul, Türkiye, 2013

8th International Symposium of Statistics, Katılımcı, Eskişehir, Türkiye, 2012

1st International Eurasian Conference on Mathematical Sciences and Applications, Katılımcı, Priştine, Kosova, 2012

International Conference on Applied Analysis and Algebra, Katılımcı, İstanbul, Türkiye, 2012

VII. İstatistik Günleri Sempozyumu, Katılımcı, Ankara, Türkiye, 2010