

Asst. Prof. MEHMET FATİH KARAASLAN

Personal Information

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International Researcher IDs

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

ScopusID: 57188763459

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Education Information

Doctorate, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, Turkey 2010 - 2016

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Vocational Training, Matlab, Yıldız Teknik Üniversitesi, 2013

Research Areas

Differential Equations, Functional Analysis, Integral Equations, Statistics, Partial Differential Equations, Numerical Analysis

Academic Titles / Tasks

Assistant Professor, Marmara University, Faculty of Sciences, Department of Mathematics, 2023 - Continues

Research Assistant PhD, Yildiz Technical University, Faculty Of Arts & Science, Department Of Statistics, 2016 - 2023

Research Assistant, Yildiz Technical University, Faculty Of Arts & Science, Department Of Statistics, 2009 - 2016

Courses

İstatistik, Undergraduate, 2024 - 2025

Bilgisayar Programlama, Undergraduate, 2024 - 2025, 2023 - 2024

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

Kesirli Diferansiyel Denklemler ve Uygulamaları, Postgraduate, 2024 - 2025

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

Published journal articles indexed by SCI, SSCI, and AHCI

- 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, vol.14, no.2, pp.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, vol.45, no.5, pp.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, vol.42, no.16, pp.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, vol.41, no.17, pp.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, vol.333, pp.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, vol.285, pp.51-58, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **A numerical approach for Camassa-Holm equation using extended trial equation method**
KARAASLAN M. F., KURULAY M.
Tbilisi Mathematical Journal, pp.33-38, 2021 (Peer-Reviewed Journal)
- II. **Numerical Solution of a Nonlocal Fractional Boundary Value Problem by HDG Method**
KARAASLAN M. F.
Journal of Engineering Technology and Applied Sciences, vol.2, no.3, pp.121-129, 2017 (Peer-Reviewed Journal)
- 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, vol.5, no.9, pp.1-16, 2015 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- 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, Turkey, 11 - 13 July 2023, pp.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, Turkey, 21 - 24 June 2022, pp.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, Turkey, 1 - 03 December 2021, pp.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, Turkey, 19 - 21 October 2021, pp.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, Turkey, 27 - 30 October 2020, pp.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, Turkey, 3 - 05 July 2019, pp.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, Turkey, 10 - 12 May 2017, pp.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, Turkey, 22 - 26 August 2016, pp.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, Turkey, 12 - 15 July 2016, pp.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, Bosnia And Herzegovina, 9 - 13 September 2015, pp.107
- XI. **Hybridizable discontinuous Galerkin method for convection-diffusion-reaction problems**
Karaaslan M. F., Çeliker F., Kurulay M.
Karatekin Mathematics Days 2014, Çankırı, Turkey, 11 - 13 June 2014, pp.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, Bosnia And Herzegovina, 26 - 29 August 2013, pp.177

- XIII. **Hybridizable Discontinuous Galerkin Method for One Dimensional Problems**
Karaaslan M. F., Kurulay M.
International Conference on Applied Analysis and Mathematical Modelling, İstanbul, Turkey, 2 - 05 June 2013, pp.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, Turkey, 11 - 13 October 2012, pp.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, Kosovo, 3 - 07 September 2012, pp.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, Turkey, 20 - 24 June 2012, pp.168
- XVII. **Discontinuous Galerkin Methods with An Application for Elliptic Problems**
Karaaslan M. F., Kurulay M.
International Conference on Applied Analysis and Algebra, İstanbul, Turkey, 20 - 24 June 2012, pp.168-169
- XVIII. **Parametrik Olmayan Basit Doğrusal Regresyon Modelinde Katsayıların Tahminlemesi**
Karaaslan M. F., Karaman F.
VII. İstatistik Günleri Sempozyumu, Ankara, Turkey, 28 - 30 June 2010, pp.103-104

Activities in Scientific Journals

Journal of Engineering Technology and Applied Sciences, Committee Member, 2016 - Continues

Scientific Refereeing

JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, SCI Journal, October 2021

TURKISH JOURNAL OF MATHEMATICS, SCI Journal, February 2020

JOURNAL OF COMPUTATIONAL METHODS IN SCIENCES AND ENGINEERING, Journal Indexed in ESCI, August 2019

ENGINEERING COMPUTATIONS : INTERNATIONAL JOURNAL FOR COMPUTER-AIDED ENGINEERING AND SOFTWARE, SCI Journal, September 2018

TURKISH JOURNAL OF MATHEMATICS, SCI Journal, August 2018

ENGINEERING COMPUTATIONS : INTERNATIONAL JOURNAL FOR COMPUTER-AIDED ENGINEERING AND SOFTWARE, SCI Journal, April 2018

Journal of Engineering Technology and Applied Sciences, Other Indexed Journal, November 2017

Journal of Engineering Technology and Applied Sciences, Other Indexed Journal, September 2017

Journal of Engineering Technology and Applied Sciences, Other Indexed Journal, June 2017

Journal of Engineering Technology and Applied Sciences, Other Indexed Journal, January 2017

Arabian Journal of Mathematics, Journal Indexed in ESCI, June 2016

Congress and Symposium Activities

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

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

İstanbul, Turkey, 2022

5th INTERNATIONAL ONLINE CONFERENCE ON MATHEMATICS "An Istanbul Meeting for World Mathematicians",
Attendee, İstanbul, Turkey, 2021

8th International Congress on Fundamental and Applied Sciences, Attendee, Antalya, Turkey, 2021

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

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

6th International Congress on Fundamental and Applied Sciences , Attendee, Tirane, Albania, 2019

INTERNATIONAL CONFERENCE ON MATHEMATICS "An Istanbul Meeting for World Mathematicians, Attendee, İstanbul,
Turkey, 2018

5th International Congress on Fundamental and Applied Sciences, Attendee, Skopje, Macedonia, 2018

Differential Equations and Applications , Attendee, Brno, Czech Republic, 2017

International Congress on Fundamental and Applied Sciences, Attendee, Sarajevo, Bosnia And Herzegovina, 2017

International Conference on Mathematics and Engineering, Attendee, İstanbul, Turkey, 2017

International Congress on Fundamental and Applied Sciences, Attendee, İstanbul, Turkey, 2016

2nd International Conference on Analysis and its Applications, Attendee, Kırşehir, Turkey, 2016

V Congress of Mathematicians of Macedonia, Attendee, Ohrid, Macedonia, 2014

Karatekin Mathematics Days, Attendee, Çankırı, Turkey, 2014

2nd International Eurasian Conference on Mathematical Sciences and Applications, Attendee, Sarajevo, Bosnia And
Herzegovina, 2013

International Conference on Applied Analysis and Mathematical Modeling, Attendee, İstanbul, Turkey, 2013

8th International Symposium of Statistics, Attendee, Eskişehir, Turkey, 2012

1st International Eurasian Conference on Mathematical Sciences and Applications, Attendee, Priştine, Kosovo, 2012

International Conference on Applied Analysis and Algebra, Attendee, İstanbul, Turkey, 2012

VII. İstatistik Günleri Sempozyumu, Attendee, Ankara, Turkey, 2010