Res. Asst. PhD Mehmet Fatih KARAASLAN

Personal Information

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International Researcher IDs
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Publons / Web Of Science ResearcherID: AAZ-5538-2020
ScopusID: 57188763459
Yoksis Researcher ID: 185409

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

Project Management, Gözlemci Panelist, TÜBİTAK, 2021
Vocational Training, SAS, SAS Türkiye, 2014
Vocational Training, MATLAB, Yıldız Teknik Üniversitesi, 2013
Vocational Training, Matematik Öğretmenliği (Tezsiz Yüksek lisans), Van Yüzüncü Yıl Üniversitesi, 2007

Dissertations

Doctorate, Bazı kesirli diferansiyel denklemler için hibritleştirilebilir sürekli olmayan Galerkin metodu, Yıldız Teknik Üniversitesi, Fen Blimleri Enstitüsü, Matematik, 2016
Postgraduate, Konveksiyon-difüzyon problemleri için katmana uyarlanmış şebekeler, Yüzüncü Yıl Üniversitesi, Fen-Edebiyat Fakültesi, Matematik, 2009

Research Areas

Differential Equations, Integral Equations, Numerical Analysis, Statistical Analysis and Applications

Academic Titles / Tasks

Academic Titles / Tasks

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

Courses

Veri Tabanı, Undergraduate, 2021 - 2022, 2018 - 2019
Mathematics 1, Undergraduate, 2022 - 2023
Statistics, Undergraduate, 2022 - 2023
Bitirme Çalışması, Undergraduate, 2022 - 2023, 2021 - 2022
Numerical Analysis, Undergraduate, 2021 - 2022
İstatistik, Undergraduate, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Maximal Lp—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.13, pp.1-14, 2022 (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, 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, 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, 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, no.7, pp.33-38, 2021 (ESCI)

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**
Çavdar Ş. Ç., Aydın 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. **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 - 22 June 2022, pp.1-2

II. **A special Green function for steady-state fractional differential equations with nonlocal boundary condition**
Karaaslan M. F.
5th International Online Conference on Mathematics "An İstanbul Meeting for World Mathematicians", İstanbul, Turkey, 1 - 03 December 2021, pp.11

III. **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.1-7

IV. **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 - 28 October 2020, pp.1-2

V. **Some existence results of fractional boundary value problems**
Karaaslan M. F.
3.International Conference on Mathematics “An Istanbul Meeting for World Mathematicians”, İstanbul, Turkey, 3 - 05 July 2019, pp.1

VI. **On Using of the Advection diffusion problem as Environmental Modelling**
Kurulay M., Karaaslan M. F.
1st International Conference on Environmental Science and Technology (ICOEST), Sarajevo, Bosnia And Herzegovina, 9 - 13 September 2015, vol.1, pp.107-108

VII. **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

VIII. **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.1

IX. **Multidimensional Comparison of Turkey and Eu member states in terms of Basic Economic Indicators Post Global Financial Crisis**
Çavdar Ş. Ç., Karaaslan M. F.
8. Uluslararası İstatistik Günleri Sempozyumu, Eskişehir, Turkey, 28 - 30 October 2012, pp.1

X. **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 September 2012, pp.1

XI. **Discontinuous Galerkin Methods with An Application for Elliptic Problems**
Karaaslan M. F., Kurulay M.
International Conference on Applied Analysis and Algebra, İstanbul, Turkey, 19 - 24 June 2012, pp.1

XII. **Parametrik Olmayan Basit Doğrusal Regresyon Modelinde Katsayıların Tahminlemesi**
Karaaslan M. F., Karaman F.
7. İstatistik Günleri Sempozyumu, Ankara, Turkey, 28 - 30 June 2010, pp.103-104

Supported Projects

KARAASLAN M. F., Other International Funding Programs, Bazı Kesirli Diferansiyel Denklemler için Hibritleştirilebilir Sürekli Olmayan Galerkin Metodu, 2013 - 2016

Activities in Scientific Journals

Journal of Engineering Technology and Applied Sciences, Editor, 2017 - Continues

Scientific Refereeing

JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, SCI Journal, October 2021
Technopark, Yildiz Technical University, Turkey, March 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, SCI Journal, September 2018
TURKISH JOURNAL OF MATHEMATICS, SCI Journal, August 2018
ENGINEERING COMPUTATIONS, 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

Tasks In Event Organizations

Karaaslan M. F., 6th International Conference on Mathematics “An İstanbul Meeting for World Mathematicians", Scientific Congress, İstanbul, Turkey, Haziran 2022
Karaaslan M. F., 5th International Online Conference on Mathematics “An İstanbul Meeting for World Mathematicians”, Scientific Congress, İstanbul, Turkey, Aralık 2021
Karaaslan M. F., International Online Conference on Differential Equations, Control and Optimization, Scientific Congress, Turkey, Ekim 2021
Karaaslan M. F., 8th International Congress on Fundamental and Applied Sciences, Scientific Congress, Antalya, Turkey, Ekim 2021
Karaaslan M. F., 4th International Conference on Mathematics "An Istanbul Meeting for World Mathematicians, Scientific Congress, İstanbul, Turkey, Ekim 2020
Karaaslan M. F., 7th International Congress on Fundamental and Applied Sciences, Scientific Congress, İstanbul, Turkey, Ekim 2020
Karaaslan M. F., INTERNATIONAL CONFERENCE ON MATHEMATICS “An Istanbul Meeting for World Mathematicians”, Scientific Congress, İstanbul, Turkey, Temmuz 2019
Karaaslan M. F., 6th International Congress on Fundamental and Applied Sciences, Scientific Congress, İstanbul, Turkey, Haziran 2019
Karaaslan M. F., 5th International Congress on Fundamental and Applied Sciences, Scientific Congress, Skopje, Macedonia, Haziran 2018
Karaaslan M. F., 4th International Congress on Fundamental and Applied Sciences, Scientific Congress, Sarajevo, Bosnia And Herzegovina, Ağustos 2017
Karaaslan M. F., 3rd International Congress on Fundamental and Applied Sciences, Scientific Congress, İstanbul, Turkey, Ağustos 2016

Metrics

Publication: 25
Citation (WoS): 21
Citation (Scopus): 28
H-Index (WoS): 2
H-Index (Scopus): 2

Congress and Symposium Activities

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
3.International Conference on Mathematics “An Istanbul Meeting for World Mathematicians”, Attendee, İstanbul, Turkey, 2019
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
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
International Conference on Analysis and its Applications, Attendee, Kırşehir, Turkey, 2016
V Congress of the Mathematicians of Makedonia, 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 Modelling, Attendee, İstanbul, Turkey, 2013
8.Uluslararası İstatistik Günleri Sempozyumu, 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
Conference on Summability and Applications, Audience, İstanbul, Turkey, 2011
7.İstatistik Günleri Sempozyumu, Attendee, Ankara, Turkey, 2010

Scholarships

Yurt İçi Yüksek Lisans Burs Programı, TUBITAK, 2007 - 2009

Awards

Karaaslan M. F., Fen-Edebiyat Fakültesi Birincisi, Yüzüncü Yıl Üniversitesi, June 2005