

Res. Asst. PhD Mehmet Fatih KARAASLAN

Personal Information

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Address: Yıldız Teknik Üniversitesi Davutpaşa Kampüsü Fen-Edebiyat Fakültesi İstatistik Bölümü Oda No: A1-16
Esenler/İSTANBUL

Education Information

Doctorate, Yıldız Technical University, Faculty of Arts & Science, Department of Mathematics, Turkey 2010 - 2016

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Vocational Training, SAS, SAS Türkiye, 2014

Vocational Training, MATLAB, Yıldız Teknik Üniversitesi, 2013

Dissertations

Doctorate, Bazı kesirli diferansiyel denklemler için hibritleştirilebilir sürekli olmayan Galerkin metodu, Yıldız Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Matematik, 2016

Post Graduate, Konveksiyon-difüzyon problemleri için katmana uyarlanmış şebekeler, Yüzüncü Yıl Üniversitesi, Fen-Edebiyat Fakültesi, Matematik, 2009

Research Areas

Mathematics, Differential Equations, Integral Equations, Numerical Analysis, Statistics, Statistical Analysis and Applications, Natural Sciences

Academic Titles / Tasks

Research Assistant PhD, Yıldız Teknik Üniversitesi, Faculty of Arts & Science, İstatistik, 2016 - Continues

Research Assistant, Yıldız Teknik Üniversitesi, Faculty of Arts & Science, İstatistik, 2009 - 2016

Courses

Veri tabanı, Under Graduate, 2018 - 2019

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **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 (Journal Indexed in SCI)

- **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 (Journal Indexed in SCI)

- **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 (Journal Indexed in SCI)

- **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 (Journal Indexed in SCI)

Articles Published in Other Journals

- **Numerical Solution of a Nonlocal Fractional Boundary Value Problem By HDG Method**

Karaaslan M. F.

Journal of Engineering Technology and Applied Sciences, vol.2, pp.121-129, 2017 (Refereed Journals of Other Institutions)

- **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, pp.1-16, 2015 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- **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

- **The existence and uniqueness of the solution for Fredholm integro-differential equation using HDG method**

Karaaslan M. F.

6.International Congress on Fundamental and Applied Sciences, Tirane, Albania, 18 - 20 June 2019, pp.1

- **Solvability of the fractional Volterra-Fredholm integro differential equation by HDG method**

Karaaslan M. F.

International Conference on Mathematics "An Istanbul Meeting for World Mathematicians", İstanbul, Turkey, 3 - 06 July 2018, pp.1

- **Extended Trial Equation Method to Camassa-Holm Equation**

Karaaslan M. F. , Kurulay M.

International Congress on Fundamental and Applied Sciences, Skopje, Macedonia, 18 - 22 June 2018, pp.1

- **Numerical simulation of the conservative fractional diffusion equations by HDG method**

Karaaslan M. F.

Differential Equations and Applications, Brno, Czech Republic, 4 - 07 September 2017, pp.1

- **An HDG method for numerical solution of nonlocal fractional boundary value problem**

Karaaslan M. F.

International Congress on Fundamental and Applied Sciences, Sarajevo, Bosnia And Herzegovina, 21 - 25 August 2017, pp.1

- **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.171

- **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

- **Numerical solution of a singularly perturbed problem by using hybridizable discontinuous Galerkin method**

Karaaslan M. F.

International Conference on Analysis and its Applications (ICAA 2016), Kırşehir, Turkey, 12 - 15 July 2016, pp.183

- **A Hybridizable discontinuous Galerkin method for a class of fractional boundary value problem**

Karaaslan M. F. , Kurulay M.

2 nd International Conference on Analysis and its Applications, Kırşehir, Turkey, 12 - 15 July 2016, pp.201

- **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

- **Approximate solution of the Bagley Torvik equation by using Hybridizable Discontinuous Galerkin Method**

Karaaslan M. F. , Çeliker F., Kurulay M.

V Congress of the Mathematicians of Makedonia, Ohrid, Macedonia, 24 - 27 September 2014, pp.37

- **Hybridizable Discontinuous Galerkin method for solving Caputo fractional boundary value problems**

Karaaslan M. F. , Kurulay M.

2nd International Conference on Analysis and Applied Mathematics (ICAAM 2014), Simkent, Kazakhstan, 11 - 13 September 2014, pp.1

- **Hybridizable Discontinuous Galerkin Method for Convection-Diffusion-Reaction Problems**

Karaaslan M. F. , Çeliker F., Kurulay M.

Karatekin Mathematics Days, İstanbul, Turkey, 11 - 13 June 2014, pp.197

- **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

- **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

- **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

- **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

- **Geometric Perspective On The Methods of Bivariate Lagrange Interpolation and OLS**

Karaaslan M. F. , Çavdar Ş. Ç.

International Conference on Applied Analysis and Algebra (ICAAA 2012), İstanbul, Turkey, 19 - 24 June 2012, pp.168

- **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

- **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 Supported Projects, Bazı Kesirli Diferansiyel Denklemler için Hibritleştirilebilir Sürekli Olmayan Galerkin Metodu, 2013 - 2016

Activities in Scientific Journals

Journal of Engineering Technology and Applied Sciences, Committee Member, 2017 - Continues

Scientific Refereeing

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. , INTERNATIONAL CONFERENCE ON MATHEMATICS "An Istanbul Meeting for World Mathematicians", Scientific Congress, İstanbul, Turkey, Temmuz 2019

Karaaslan M. F. , Karaaslan M. F. , 6th International Congress on Fundamental and Applied Sciences, Scientific Congress, İstanbul, Turkey, Haziran 2019

Karaaslan M. F. , Karaaslan M. F. , 5th International Congress on Fundamental and Applied Sciences, Scientific Congress, Skopje, Macedonia, Haziran 2018

Karaaslan M. F. , Karaaslan M. F. , International Congress on Fundamental and Applied Sciences, Scientific Congress, Sarajevo, Bosnia And Herzegovina, Ağustos 2017

Karaaslan M. F. , Karaaslan M. F. , International Congress on Fundamental and Applied Sciences, Scientific Congress, İstanbul, Turkey, Ağustos 2016

Invited Congress and Symposium Activities

3. International Conference on Mathematics "An Istanbul Meeting for World Mathematicians", Working Group, İstanbul, Turkey, 2019

International Congress on Fundamental and Applied Sciences, Working Group, Tirane, Albania, 2019

International Conference on Mathematics "An Istanbul Meeting for World Mathematicians, Working Group, İstanbul, Turkey, 2018

International Congress on Fundamental and Applied Sciences, Working Group, Skopje, Macedonia, 2018

Differential Equations and Applications, Working Group, Brno, Czech Republic, 2017

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

International Conference on Mathematics and Engineering, Working Group, İstanbul, Turkey, 2017

International Congress on Fundamental and Applied Sciences, Working Group, İstanbul, Turkey, 2016

International Conference on Analysis and its Applications, Working Group, Kırşehir, Turkey, 2016

V Congress of the Mathematicians of Makedonia, Working Group, Ohrid, Macedonia, 2014

Karatekin Mathematics Days, Working Group, Çankırı, Turkey, 2014

2nd International Eurasian Conference on Mathematical Sciences and Applications, Working Group, Sarajevo, Bosnia

And Herzegovina, 2013

International Conference on Applied Analysis and Mathematical Modelling, Working Group, İstanbul, Turkey, 2013

8.Uluslararası İstatistik Günleri Sempozyumu, Working Group, Eskişehir, Turkey, 2012

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

International Conference on Applied Analysis and Algebra, Working Group, İstanbul, Turkey, 2012

Conference on Summability and Applications, Working Group, İstanbul, Turkey, 2011

7.İstatistik Günleri Sempozyumu, Working Group, Ankara, Turkey, 2010

Citations

Total Citations (WOS):16

h-index (WOS):2

Scholarships

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

Awards

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