

## Res. Asst. PhD Mehmet Fatih KARAASLAN

### Personal Information

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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

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 Bilimleri 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

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

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

### Courses

Veri tabanı, Undergraduate, 2018 - 2019

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

- I. **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 (Journal Indexed in SCI Expanded)
- II. **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)
- III. **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)
- IV. **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)
- V. **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

- 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 (Journal Indexed in 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 (Refereed Journals of Other Institutions)
- 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 (Refereed Journals of Other Institutions)

## Refereed Congress / Symposium Publications in Proceedings

- I. **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
- II. **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
- III. **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

- IV. **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
- V. **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
- VI. **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
- VII. **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
- VIII. **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
- IX. **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. , 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. , International Congress on Fundamental and Applied Sciences, Scientific Congress, Sarajevo, Bosnia And Herzegovina, Ağustos 2017

### **Edit Congress and Symposium Activities**

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

### **Citations**

Total Citations (WOS):16  
h-index (WOS):2

### **Scholarships**

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

## **Awards**

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