Asst. Prof. TUĞÇEM PARTAL

Personal Information

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Education Information

Doctorate, Yildiz Technical University, Kimya Metalurji Fakültesi, Matematik Mühendisliği, Turkey 2012 - 2018

Research Areas

algorithms, Computer Graphics, Database and Data Structures, Software, Computer Science, Differential Equations, Economics, Social Sciences and Behavioral Sciences, Statistics, Probability Theory, Stochastic Processes, Optimization, Numerical Analysis

Academic Titles / Tasks

Assistant Professor, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2021 - Continues Research Assistant PhD, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2018 - 2021 Research Assistant, Yildiz Technical University, Kimya Metalurji Fakültesi, Matematik Mühendisliği, 2012 - 2018 Research Assistant, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2011 - 2012 Research Assistant, Firat University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2010 - 2011

Academic and Administrative Experience

Head of Department, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2021 - Continues

Courses

Mühendislik Matematiği II, Undergraduate, 2021 - 2022
Mühendislik Matematiği, Postgraduate, 2021 - 2022
İleri Diferansiyel Denklemler, Postgraduate, 2021 - 2022
Diferansiyel Denklemler, Undergraduate, 2022 - 2023
Diferansiyel Denklemler-I, Undergraduate, 2022 - 2023
Programlama Dilleri, Undergraduate, 2021 - 2022
MATLAB, Postgraduate, 2022 - 2023
Mühendislikte Diferansiyel Denklemler, Undergraduate, 2020 - 2021

Mühendislik Metematiği, Undergraduate, 2021 - 2022

Matematik, Undergraduate, 2021 - 2022

Diferansiyel Denklemlerin Sayısal Çözüm Yöntemleri, Postgraduate, 2021 - 2022

Matematik, Undergraduate, 2021 - 2022

Mali Matematik, Undergraduate, 2020 - 2021

Algoritma ve Veri Yapıları, Undergraduate, 2021 - 2022

Jury Memberships

Doctoral Examination, Doctoral Examination, Fırat Üniversitesi, May, 2023 Competition, TEKNOFEST, Recep Tayyip Erdoğan Üniversitesi, August, 2022 Post Graduate, Post Graduate, Fırat Üniversitesi, June, 2022

Published journal articles indexed by SCI, SSCI, and AHCI

I. Numerical methods for simulation of stochastic differential equations

Bayram M., Partal T., Buyukoz G. O.

ADVANCES IN DIFFERENCE EQUATIONS, 2018 (SCI-Expanded)

II. PARAMETER ESTIMATION IN A BLACK-SCHOLES MODEL

Bayram M., Orucova Buyukoz G., Partal T.

THERMAL SCIENCE, vol.22, 2018 (SCI-Expanded)

Articles Published in Other Journals

I. Comparing the solution of the Kdv equation by three different methods

BULUT H., PARTAL T.

ournal of Advanced Research in Scientific Computing, vol.2, no.3, 2010 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. Exact Solutions for the Wick-Type Stochastic Zakharov-Kuznetsov Equation

Partal T., Aslan E. C.

IV. International Applied Statistics Congress (UYIK - 2023), Sarajevo, Bosnia And Herzegovina, 26 - 29 September 2023, pp.93

II. Numerical Simulation of a Stochastic Model in Tumor Growth

Partal T.

IV. International Applied Statistics Congress (UYIK - 2023), Sarajevo, Bosnia And Herzegovina, 26 - 29 September 2023, pp.556

III. Stochastic Epidemic Models in Discrete Time

Partal T., Bayram M.

International Conference on Nonlinear Science and Complexity (ICNSC23), İstanbul, Turkey, 10 - 15 July 2023, pp.203

IV. SIR EPIDEMIC MODEL FOR COVID-19 SPREAD

Partal T.

7th International Conference on Computational Mathematics and Engineering Sciences, Elazığ, Turkey, 20 - 21 May 2023, pp.170

V. On the Exact Solutions of Wick Type Stochastic Boussinesq Equation

Partal T., İnç M., Bayram M.

ONLINE INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELING, İstanbul,

Turkey, 11 - 13 June 2021, pp.106

VI. Numerical Simulation of SIR System"

Partal T., Bayram M.

8th International Conference on Applied Analysis and Mathematical Modeling (ICAAMM 2019), İstanbul, Turkey, 10 March 2019

VII. On the Stochastic Differential Equations in Mathematical Finance

Partal T., Bayram M.

2nd International Conference on Economics, Finance and Management: "Challenges of the 21st Century in Economics, Finance and Management, İstanbul, Turkey, 3 - 04 May 2018, pp.18

VIII. On the Numerical Solution of a Stochastic Oscillator

Partal T.

TFD, 34. ULUSLARARASI FİZİK KONGRESİ, Muğla, Turkey, 5 - 09 September 2018

IX. On the Analytical Solution for Stochastic Differential Equations with Lie Symmetry Analysis

PARTAL T., KÜÇÜKARSLAN YÜZBAŞI Z., CAVLAK ASLAN E.

7th International Conference on Applied Analysis and MAthematical Modeling, İstanbul, Turkey, 20 - 24 June 2018

X. Numerical Simulation of the Heston Model

PARTAL T., BAYRAM M.

7th International Conference on Applied Analysis and Mathematical Modeling, 20 - 24 June 2018

XI. A Stochastic Model for Parathyroid Tumours

PARTAL T., BAYRAM M.

3rd International Conference on Computational Mathematics and Engineering Sciences, CMES 2018, 4 - 06 May 2018

XII. Numerical Simulation of Stochastic Oscillator

ORUCOVA G., PARTAL T., BAYRAM M.

International Conference on Mathematics and Computational Science and Engineering, Tokyo, Japan, 27 - 28 July 2017

XIII. A Stochastic Model of Human Breast Cancer Growth

PARTAL T., ORUCOVA G., BAYRAM M.

International Conference on Mathematics and Computational Science and Engineering, Tokyo, Japan, 27 - 28 July 2017

XIV. Stability of Strong Numerical Schemes for Stochastic Differential Equations

PARTAL T., BAYRAM M.

International Conference on Applied Analysis and Mathematical Modeling (ICAAMM 2017), İstanbul, Turkey, 3 - 07 July 2017

XV. Numerical Solutions of Stochastic SIS Epidemic Model

PARTAL T., BAYRAM M.

 $International\ Conference\ on\ Applied\ Analysis\ and\ Mathematical\ Modeling\ (ICAAMM\ 2017),\ Is tanbul,\ Turkey,\ 3-07$ $July\ 2017$

XVI. Stochastic Runge-Kutta Methods In A Gompertzian Stochastic Model

PARTAL T., BAYRAM M.

2nd International Conference On Computational Mathematics And Engineering Sciences-(Cmes2017), İstanbul, Turkey, 20 - 22 May 2017

XVII. Maximum Likelihood Parameter Estimation Method for Tumor Growth

PARTAL T., BAYRAM M.

International Conference on Mathematics and Engineering (ICOME 2017), İstanbul, Turkey, 10 - 12 May 2017

XVIII. Explicit Runge-Kutta Methods for a Stochastic Model in Tumour Growth

PARTAL T., BAYRAM M.

3rd International Conference on Pure and Applied Sciences, Dubai, United Arab Emirates, 2 - 06 February 2017

XIX. Numerical Simulation of Nonlinear Stochastic Differential Equations

PARTAL T., BAYRAM M.

2nd International Conference on Pure Applied Science (ICPAS-2016), İstanbul, Turkey, 1 - 05 June 2016

XX. Maximum Likelihood Estimation in Stochastic Differential Equations

PARTAL T., ORUCOVA G., BAYRAM M.

2nd International Conference on Pure Applied Science (ICPAS-2016), İstanbul, Turkey, 1 - 05 June 2016

XXI. Numerical Solution of Second order Stochastic Differential Equations

ORUCOVA G., PARTAL T., BAYRAM M.

2nd International Conference on Pure Applied Science (ICPAS-2016), İstanbul, Turkey, 1 - 05 June 2016

XXII. Gompertzian Stochastic Model for Tumor Growth

PARTAL T., ORUCOVA G., BAYRAM M.

International Conference on Mathematics and Mathematics Education, Elazığ, Turkey, 12 - 14 May 2016

XXIII. Black Scholes Model with Numerical Solutions

ORUCOVA G., PARTAL T., BAYRAM M.

nternational Conference on Mathematics and Mathematics Education (ICMME-2016), Elazığ, Turkey, 12 - 14 May 2016

XXIV. Hedging Strategies for Exotic Options

PARTAL T., BAYRAM M.

4th International Conference on Mathematics Information Science,, Cairo, Egypt, 3 - 07 February 2015

XXV. The Solutions of Burgers' Equation by Three Different Methods

PARTAL T., BULUT H.

IV Congress of the Turkic World Mathematical Society, Baku, Azerbaijan, 1 - 03 June 2011

Scientific Refereeing

Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi (Online), National Scientific Refreed Journal, August 2023

Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, July 2023

Karadeniz Fen Bilimleri Dergisi, National Scientific Refreed Journal, March 2023

Avrupa Bilim ve Teknoloji Dergisi, Other Indexed Journal, January 2023

Ikonion Journal of Mathematics, Other Indexed Journal, December 2022

computers materials and continua, Journal Indexed in SCI-E, January 2022

Cumhuriyet Science Journal, Other Indexed Journal, November 2021

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, Journal Indexed in ESCI, September 2021

Computers, Materials & Continua, Journal Indexed in ESCI, August 2021

ADIYAMAN ÜNİVERSİTESİ MÜHENDİSLİK BİLİMLERİ DERGİSİ, Other Indexed Journal, May 2021

Avrupa Bilim ve Teknoloji Dergisi, National Scientific Refreed Journal, May 2021

MATHEMATICAL METHODS IN THE APPLIED SCIENCES, Journal Indexed in ESCI, February 2021

Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, Other Indexed Journal, October 2020

Muş Alparslan Üniversitesi Fen Bilimleri Dergisi, Other Indexed Journal, June 2020

Scientific Consultations

Teknofest, Scientific Consultancy, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik Bölümü, Turkey, 2022 - Continues

Tasks In Event Organizations

Partal T., 2023 Hybrid Conference on Nonlinear Science and Complexity, Scientific Congress, Turkey, Temmuz 2023
Partal T., ONLINE INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELING, Scientific

Congress, Turkey, Temmuz 2022

Partal T., ONLINE INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELING, Scientific Congress, İstanbul, Turkey, Haziran 2021

Partal T., First Online Conference On Modern Fractional Calculus And Its Applications (OCMFCA), Scientific Congress, İstanbul, Turkey, Aralık 2020

Partal T., INTERNATIONAL CONFERENCE ON MATHEMATICS AND ENGINEERING , Scientific Congress, Turkey, Mayıs 2017

Partal T., 2nd International Conference on Pure & Applied Science, Scientific Congress, Turkey, Haziran 2016
Partal T., International Conference on Applied Analysis and Mathematical Modeling, Scientific Congress, Turkey, Haziran 2015

Metrics

Publication: 28
Citation (WoS): 19
Citation (Scopus): 31
H-Index (WoS): 2
H-Index (Scopus): 2

Congress and Symposium Activities

IV. International Applied Statistics Congress (UYIK - 2023), Attendee, Sarajevo, Bosnia And Herzegovina, 2023
International Conference on Nonlinear Science and Complexity, Attendee, İstanbul, Turkey, 2023
International Conference on Nonlinear Science and Complexity, Session Moderator, İstanbul, Turkey, 2023
7th International Conference on Computational Mathematics and Engineering Sciences, Attendee, Elazığ, Turkey, 2023
10th (Online) International Conference on Applied Analysis and Mathematical Modeling, Session Moderator, İstanbul, Turkey, 2022

ONLINE INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELING, Session Moderator, İstanbul, Turkey, 2021

ONLINE INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELING, Attendee, İstanbul, Turkey, 2021

7th International Conference on Applied Analysis and Mathematical Modeling, Attendee, İstanbul, Turkey, 2018
3rd International Conference on Computational Mathematics and Engineering Sciences, Attendee, Girne, Cyprus (Kktc),
2018

International Conference on Mathematics and Computational Science and Engineering, Attendee, Tokyo, Japan, 2017 International Conference on Applied Analysis and Mathematical Modeling, Attendee, İstanbul, Turkey, 2017 2nd International Conference On Computational Mathematics And Engineering Sciences, Attendee, İstanbul, Turkey, 2017

International Conference on Mathematics and Engineering, Working Group, İstanbul, Turkey, 2017 2nd International Conference on Pure Applied Science (ICPAS-2016), Session Moderator, İstanbul, Turkey, 2016