

Asst. Prof. TUĞÇEM PARTAL

Personal Information

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International Researcher IDs

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Yoksis Researcher ID: 153910

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

Mühendislikte Diferansiyel Denklemler, Undergraduate, 2020 - 2021

Mühendislik Matematiği, 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

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.

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

Refereed Congress / Symposium Publications in Proceedings

I. 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

II. 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

III. 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

IV. On the Numerical Solution of a Stochastic Oscillator

Partal T.

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

V. Numerical Simulation of the Heston Model

PARTAL T., BAYRAM M.

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

VI. 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

VII. 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

- VIII. **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
- IX. **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
- X. **Numerical Solutions of Stochastic SIS Epidemic Model**
PARTAL T., BAYRAM M.
International Conference on Applied Analysis and Mathematical Modeling (ICAAMM 2017), İstanbul, Turkey, 3 - 07 July 2017
- XI. **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
- XII. **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
- XIII. **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
- XIV. **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
- XV. **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
- XVI. **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
- XVII. **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
- XVIII. **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
- XIX. **Black Scholes Model with Numerical Solutions**
ORUCOVA G., PARTAL T., BAYRAM M.
International Conference on Mathematics and Mathematics Education (ICMME-2016), Elazığ, Turkey, 12 - 14 May 2016
- XX. **Hedging Strategies for Exotic Options**
PARTAL T., BAYRAM M.
4th International Conference on Mathematics Information Science., Cairo, Egypt, 3 - 07 February 2015
- XXI. **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

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

Tasks In Event Organizations

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: 24

Citation (WoS): 19

Citation (Scopus): 31

H-Index (WoS): 2

H-Index (Scopus): 2

Congress and Symposium Activities

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