

Assoc. Prof. ZAFER BEKİRYAZICI

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAQ-7932-2020

ScopusID: 56191618000

Yoksis Researcher ID: 193125

Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Matematik, Turkey 2014 - 2017

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Matematik Mühendisliği, Turkey 2009 - 2012

Undergraduate, Marmara University, Fen Edebiyat Fakültesi, Matematik Bölümü, Turkey 2005 - 2009

Certificates, Courses and Trainings

Vocational Training, Erasmus Staff Teaching Mobility, Università degli Studi del Sannio, 2023

Vocational Training, Latex ile Döküman Hazırlama Kursu, Amasya Üniversitesi, 2022

Vocational Training, Erasmus Staff Training Mobility, Technische Universität Darmstadt, 2017

Vocational Training, Doğa Bilimlerinde Akademik Düzeyde Araştırma Projesi Hazırlama Eğitimi, Karadeniz Teknik Üniversitesi, 2015

Vocational Training, Erasmus Staff Training Mobility, Lorentz Center, 2014

Dissertations

Doctorate, Bazı Kompartmanlı Modellerin Rastgele Etkiler Altında İncelenmesi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Matematik, 2017

Postgraduate, Lineer Operatör Denklemler İçin Temel Çözüm ve Uygulamaları, Istanbul Technical University, Fen Bilimleri Enstitüsü, Matematik Mühendisliği, 2012

Research Areas

Mathematics, Differential Equations, Statistics, Probability Theory, Stochastic Processes, Numerical Analysis, Natural Sciences

Academic Titles / Tasks

Associate Professor, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2024 - Continues
Assistant Professor, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2019 - Continues
Research Assistant PhD, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2017 - 2019
Research Assistant, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2010 - 2017

Academic and Administrative Experience

Assistant Director of the Institute, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2024 - Continues
Department Academic Incentive Evaluation Commission Member, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2023 - Continues
Erasmus Bölüm Koordinatörü, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2013 - 2023

Courses

Postgraduate

Stokastik Diferansiyel Denklemler, Postgraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021
İleri İstatistik, Postgraduate, 2024 - 2025, 2022 - 2023, 2021 - 2022, 2020 - 2021
Uygulamalı Matematiğin Yöntemleri, Postgraduate, 2019 - 2020

Undergraduate

Mesleki İngilizce - II, Undergraduate, 2023 - 2024, 2020 - 2021
Probability and Statistics, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022
Olasılık, Undergraduate, 2024 - 2025, 2022 - 2023, 2021 - 2022
Sayısal Analiz, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022
Diferansiyel Denklemlerin Sayısal Çözüm Yöntemleri, Undergraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021, 2019 - 2020
Diferansiyel Denklemler, Undergraduate, 2023 - 2024, 2022 - 2023, 2020 - 2021, 2019 - 2020
Differential Equations, Undergraduate, 2021 - 2022
Uygulamalı Mühendislik Matematiği, Undergraduate, 2020 - 2021
İstatistik, Undergraduate, 2020 - 2021, 2019 - 2020, 2017 - 2018
Mühendislik Matematiği - II, Undergraduate, 2019 - 2020
Mesleki İngilizce - I, Undergraduate, 2019 - 2020
Mühendislik Matematiği - I, Undergraduate, 2019 - 2020

Associate Degree

Matematik, Associate Degree, 2024 - 2025, 2023 - 2024
Matematik-II, Associate Degree, 2019 - 2020

Supervised Theses

Bekiryazıcı Z., Bir COVID-19 yayılımı modelinin stokastik davranışlarının incelenmesi, Postgraduate, A.ÖNEN(Student), 2023
Bekiryazıcı Z., El, Ayak, Ağız Hastalığı Modelinin Rastgele Koşullarda İncelenmesi, Postgraduate, S.HAŞİMOĞLU(Student), 2022

Jury Memberships

Post Graduate, Post Graduate, Recep Tayyip Erdoğan Üniversitesi, August, 2021

Doctoral Examination, Doctoral Examination, Gümüşhane Üniversitesi, January, 2020

Post Graduate, Post Graduate, Gümüşhane Üniversitesi, January, 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Sensitivity Analysis and Random Dynamics for a Mathematical Model of Tuberculosis Transmission**
Bekiryazıcı Z.
COMMUNICATIONS IN STATISTICS PART B: SIMULATION AND COMPUTATION, vol.53, no.12, pp.6009-6021, 2024 (SCI-Expanded)
- II. **Utilizing fractional derivatives and sensitivity analysis in a random framework: a model-based approach to the investigation of random dynamics of malware spread**
Bekiryazıcı Z.
BOUNDARY VALUE PROBLEMS, vol.2024, no.1, 2024 (SCI-Expanded)
- III. **Approximate Solutions of Fractional Differential Equations Using Optimal q-Homotopy Analysis Method: A Case Study of Abel Differential Equations**
Sengül S., Bekiryazıcı Z., Merdan M.
FRACTAL AND FRACTIONAL, vol.8, no.9, pp.533, 2024 (SCI-Expanded)
- IV. **A modification of approximate random characteristics for a model of Zika virus transmission**
Bekiryazıcı Z., Kesemen T., Merdan M., Khaniyev T.
THERMAL SCIENCE, vol.26, no.4A, pp.3067-3077, 2022 (SCI-Expanded)
- V. **Modification of the random differential transformation method and its applications to compartmental models**
Bekiryazıcı Z., Merdan M., Kesemen T.
COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, vol.50, no.18, pp.4271-4292, 2021 (SCI-Expanded)
- VI. **WONG-ZAKAI METHOD FOR STOCHASTIC DIFFERENTIAL EQUATIONS IN ENGINEERING**
Şengül S., Bekiryazıcı Z., Merdan M.
THERMAL SCIENCE, vol.25, 2021 (SCI-Expanded)
- VII. **Modelling of cohesive –sediment depositional areas carried by the Solaklı River to the eastern Black-Sea**
Yazır D., Ünver İ., Köse E., Bekiryazıcı Z.
Indian Journal of Geo-Marine Sciences, vol.47, no.3, pp.721-728, 2018 (SCI-Expanded)
- VIII. **Deterministic stability and random behavior of a Hepatitis C model**
Merdan M., Bekiryazıcı Z., Kesemen T., Khanlyev T.
PLOS ONE, vol.12, no.7, 2017 (SCI-Expanded)
- IX. **Comparison of stochastic and random models for bacterial resistance**
Merdan M., Bekiryazıcı Z., Kesemen T., Khaniyev T.
ADVANCES IN DIFFERENCE EQUATIONS, 2017 (SCI-Expanded)

Articles Published in Other Journals

- I. **Analyzing the stochastic dynamics of COVID-19 waves in Turkey using real data and piecewise sinusoidal functions**
Bekiryazıcı Z., Önen A.
International Journal of Dynamics and Control, vol.12, no.8, pp.2830-2841, 2024 (ESCI)
- II. **Wong-Zakai approximation for stochastic models of smoking**
Şengül S., Bekiryazıcı Z., Merdan M.

Sigma Journal of Engineering and Natural Sciences, vol.41, no.5, pp.958-968, 2023 (ESCI)

- III. **MODELING DISEASE TRANSMISSION DYNAMICS WITH RANDOM DATA AND HEAVY TAILED RANDOM EFFECTS: THE ZIKA CASE**
Bekiryazici Z., Kesemen T., Merdan M., Khaniyev T.
TWMS JOURNAL OF APPLIED AND ENGINEERING MATHEMATICS, vol.13, no.4, pp.1272-1286, 2023 (ESCI)
- IV. **Comparison of a random model of Hand-Foot-Mouth Disease model with Gaussian and Laplacian parameters**
Bekiryazıcı Z., Hasimoglu S.
Gümüşhane Üniversitesi Fen Bilimleri Dergisi, vol.12, no.1, pp.200-210, 2022 (Peer-Reviewed Journal)
- V. **GENERALIZED OSCULATING CURVES OF TYPE (n-3) IN THE n-DIMENSIONAL EUCLIDEAN SPACE**
Bektas O., Bekiryazıcı Z.
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.71, no.1, pp.212-225, 2022 (ESCI)
- VI. **Transmission of Cholera Disease with Laplacian and Triangular Parameters**
Merdan M., Bekiryazıcı Z., Kesemen T., Khaniyev T.
IRANIAN JOURNAL OF MATHEMATICAL SCIENCES AND INFORMATICS, vol.17, no.2, pp.289-305, 2022 (ESCI)
- VII. **THE PERFORMANCE OF WONG-ZAKAI APPROXIMATIONS FOR THE INVESTIGATION OF STOCHASTIC DIFFERENTIAL EQUATION MODELS WITH NONLINEAR MULTIPLICATIVE NOISE**
Şengül S., Bekiryazıcı Z., Merdan M.
ACTA MATHEMATICA UNIVERSITATIS COMENIANAE, vol.90, no.2, pp.231-243, 2021 (ESCI)
- VIII. **Analysis of The Dynamics of The Classical Epidemic Model with Beta Distributed Random Components**
Kesemen T., Merdan M., Bekiryazıcı Z.
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.10, no.3, pp.1956-1965, 2020 (Peer-Reviewed Journal)
- IX. **Investigation of the Behaviour of Volterra Integral Equations with Random Effects**
Merdan M., Altay Ö., Bekiryazıcı Z.
Gümüşhane Üniversitesi Fen Bilimleri Dergisi, vol.10, no.1, pp.205-216, 2020 (Peer-Reviewed Journal)
- X. **Investigation of Random and Stochastic Models for CD8 T Cell Immune Response**
Merdan M., Bekiryazıcı Z., Kesemen T., Anac H.
Journal of Abstract and Computational Mathematics, vol.4, pp.37-48, 2019 (Peer-Reviewed Journal)
- XI. **Solving of Some Random Partial Differential Equations by Using Differential Transformation Method and Laplace- Padé Method**
Merdan M., Anaç H., Bekiryazıcı Z., Kesemen T.
Gümüşhane Üniversitesi Fen Bilimleri Dergisi, vol.9, no.1, pp.108-118, 2019 (Peer-Reviewed Journal)
- XII. **Analysis of a Random Zeeman Heartbeat Model with Differential Transformation Method**
Oral P., Merdan M., Bekiryazıcı Z.
Cumhuriyet Science Journal, vol.40, no.2, pp.285-298, 2019 (Peer-Reviewed Journal)
- XIII. **GLOBAL STABILITY IN A PATHOGEN-SPECIFIC CD8 IMMUNE RESPONSE PREDICTION MODEL**
Anac H., Merdan M., Bekiryazici Z.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.10, no.3, pp.325-342, 2019 (ESCI)
- XIV. **Local Fractional Derivative Operators Method for Solving Nonlinear Gas Dynamic Equation of Fractional Order**
Merdan M., Bekiryazıcı Z.
INTERNATIONAL JOURNAL OF PURE AND APPLIED MATHEMATICS, vol.119, pp.501-517, 2018 (Peer-Reviewed Journal)
- XV. **Investigation of Zeeman Models with Time Delays**
Oral P., Merdan M., Bekiryazici Z.
Journal of Advances in Mathematics and Computer Science, vol.26, no.6, pp.1-15, 2018 (Peer-Reviewed Journal)
- XVI. **ANALYZING THE DYNAMICS OF EBOLA TRANSMISSION WITH RANDOM EFFECTS**
Merdan M., Bekiryazici Z., Kesemen T., Khaniyev T.

COMMUNICATIONS IN MATHEMATICAL BIOLOGY AND NEUROSCIENCE, 2018 (ESCI)

- XVII. **Stochastic and random models of Malaria Disease with vertical transmission**
Bekiryazıcı Z., Kesemen T., Merdan M.
New Trends in Mathematical Sciences, vol.1, no.5, pp.269-277, 2017 (Peer-Reviewed Journal)
- XVIII. **Mathematical Modeling of Biochemical Reactions Under Random Effects**
Bekiryazıcı Z., Merdan M., Kesemen T., Khaniyev T.
Turkish Journal of Mathematics and Computer Science, vol.5, pp.8-18, 2016 (Peer-Reviewed Journal)
- XIX. **Mathematical Modeling of Dengue Disease under Random Effects**
Bekiryazıcı Z., Merdan M., Kesemen T., Najmuldeen M.
Mathematical Sciences and Applications E-Notes, vol.4, no.2, pp.72-84, 2016 (Peer-Reviewed Journal)
- XX. **A psychometric scale for determining university students' attitudes towards the statistics courses they take: Statistical attitude scale (SAS)**
Tunc T., Komitoglu F., Bekiryazıcı Z.
Energy Education Science & Technology, Part B: Social and Educational Studies, vol.6, pp.15-24, 2014 (Scopus)

Papers Published in Refereed Scientific Meetings

- I. **The Congruity of Solutions from Stochastic and Random Models in the Analysis of Deterministic Systems with Uncertainty**
Bekiryazıcı Z.
10th International IFS and Contemporary Mathematics and Engineering Conference, Mersin, Turkey, 4 - 07 September 2024, pp.45
- II. **A New Study on a Random Conformable Fractional System Modeling Acid-Mediated Tumor Cell Invasion**
Meral G., Yazır T., Bekiryazıcı Z., Anaç H.
8th Approximation Theory and Special Functions (ATSF 2024) Conference,, Ankara, Turkey, 4 - 07 September 2024, pp.172
- III. **Average Solutions of Differential Equations Containing Fractional Derivatives of Orders Governed by Probability Distributions with Bounded Support**
Bekiryazıcı Z.
12th International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 19 - 23 July 2024, pp.84
- IV. **An Investigation of Pest Management Dynamics for Tea Plant in Turkey using Stochastic Models**
Bekiryazıcı Z.
6th International Conference on Research in Applied Mathematics and Computer Science, Marrakush, Morocco, 25 - 27 April 2024, pp.312
- V. **Analyzing Compartmental Models of Disease Transmission with Fractional Derivatives and Randomized Parameters: An Approach Based on Simulations**
Bekiryazıcı Z.
7th International Conference on Mathematics: An Istanbul Meeting for World Mathematicians, İstanbul, Turkey, 11 - 13 July 2023, pp.212
- VI. **The Effects of Randomized Initial Values on the Dynamics of Disease Transmission in Fractional-Random Compartmental Models**
Bekiryazıcı Z.
7th International Conference on Mathematics: An Istanbul Meeting for World Mathematicians, İstanbul, Turkey, 11 - 13 July 2023, pp.489-498
- VII. **Analysis of COVID-19 Dynamics in Turkey using Sinusoidal Transmission Rates and Stochastic Differential Equations**
Bekiryazıcı Z.
2nd International E-Conference on Mathematical and Statistical Science: A Selcuk Meeting, Konya, Turkey, 5 - 07

June 2023, pp.54

- VIII. **Investigation of the Most Appropriate Plant Selections for Parking Areas in Urban Areas with Multi-Criteria Decision-Making Methods**
Bekiryazıcı F., Köseoğlu A., Bekiryazıcı Z.
8th International Asian Congress on Contemporary Sciences, Aksaray, Turkey, 5 - 07 May 2023, pp.317
- IX. **Investigation of COVID-19 Dynamics in Turkey with Real Data and Stochastic Simulations**
Bekiryazıcı Z.
5th International Conference on Research in Applied Mathematics and Computer Science, Casablanca, Morocco, 16 - 18 March 2023, pp.307
- X. **Investigation of Simulation Based Stochastic and Random Characteristics of the FitzHugh-Nagumo Model**
Bekiryazıcı Z.
4th International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 10 - 13 November 2022, pp.1260-1265
- XI. **Investigation of Fractional Order Genesio-Tesi System Using Laplace Transformation**
Bekiryazıcı Z., Şengül S., Merdan M.
8th International IFS and Contemporary Mathematics Conference, Mersin, Turkey, 16 - 19 June 2022, pp.18-19
- XII. **Stochastic Dynamics of the Novel Coronavirus Transmission Considering Asymptomatic Cases**
Bekiryazıcı Z., Önen A.
8th International IFS and Contemporary Mathematics Conference, Mersin, Turkey, 16 - 19 June 2022, pp.20-21
- XIII. **Comparison of HFMD Transmission Dynamics under Gaussian and Laplacian Random Effects**
Bekiryazıcı Z., Haşimoğlu S.
International Online Conferences on Engineering and Natural Sciences, Gümüşhane, Turkey, 5 - 07 July 2021, pp.211
- XIV. **Gender Based Transmission Dynamics of Zika Virus with Random Effects**
Bekiryazıcı Z., Kesemen T., Merdan M., Khanliyev T.
International Online Conferences on Engineering and Natural Sciences, Gümüşhane, Turkey, 5 - 07 July 2021, pp.212
- XV. **A new type of osculating curve in E_n**
Bektaş Ö., Bekiryazıcı Z.
18. Uluslararası Geometri Sempozyumu, Malatya, Turkey, 12 - 13 July 2021, pp.81
- XVI. **Investigation of Random Zika Virus Transmission with Modified Random Differential Transformation Method**
Bekiryazıcı Z., Kesemen T., Merdan M., Hanalioğlu T.
9th International Eurasian Conference on Mathematical Sciences and Applications, Skopje, Macedonia, 25 - 28 August 2020, pp.114-115
- XVII. **Modelling Disease Transmission Scenarios Using Field Data and Heavy Tailed Random Effects: The Zika Case**
BEKİRYAZICI Z., Kesemen T., Merdan M., Khanliyev T.
11th International Statistics Congress, Muğla, Turkey, 4 - 08 October 2019, pp.91
- XVIII. **Stochastic Investigation of a Crop Pest Management Model with Awareness**
BEKİRYAZICI Z.
3rd International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 19 - 21 September 2019, pp.374-378
- XIX. **Mathematical Modelling of the Random Spread of Malware under Mutation Using Random Differential Equations**
BEKİRYAZICI Z.
3rd International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 19 - 21 September 2019, pp.223-229
- XX. **Global Stability in a Predicting Pathogen-Specific CD8 Cell Immune Responses from a Modelling Approach**

BEKİRYAZICI Z., Anac H., Merdan M.

International Conference on Applied Analysis and Mathematical Modelling, İstanbul, Turkey, 10 - 13 March 2019, pp.221

- XXI. **Analysis of a Pneumonia Transmission Model with Random Components**
BEKİRYAZICI Z., Kesemen T., Merdan M.
5th International Conference on Recent Advances In Pure And Applied Mathematics, Trabzon, Turkey, 23 - 27 July 2018, pp.39-40
- XXII. **A Fractional Random Model for Influenza Transmission**
Merdan M., BEKİRYAZICI Z.
International Conference on Mathematics: An Istanbul Meeting for World Mathematicians, İstanbul, Turkey, 3 - 06 July 2018, pp.412
- XXIII. **An Epidemiological Model with Caputo Fractional Derivative and Normally Distributed Random Components**
Merdan M., BEKİRYAZICI Z.
International Conference on Mathematics: An Istanbul Meeting for World Mathematicians, İstanbul, Turkey, 3 - 06 July 2018, pp.413
- XXIV. **A Comparison of Variation Coefficients of Biochemical Reaction Model for Several Probability Distributions**
Kesemen T., BEKİRYAZICI Z., Khaniev T., Karaarslan G.
International Conference on Mathematics and Mathematics Education, Ordu, Turkey, 27 - 29 June 2018, pp.745-746
- XXV. **Behaviours of Random Effected Volterra and Fredholm Integral Equation**
Merdan M., Altay Ö., BEKİRYAZICI Z.
International Conference on Mathematics and Mathematics Education, Ordu, Turkey, 27 - 29 June 2018, pp.259-260
- XXVI. **Investigation of A Model For Polio By Using Random Differential Equations and Parameters with Gaussian Distribution**
BEKİRYAZICI Z., Kesemen T., Merdan M.
International Conference on Mathematics and Mathematics Education, Ordu, Turkey, 27 - 29 June 2018, pp.785-786
- XXVII. **Generalized Beta Parameters for a SVEIR-Type Random Model of Polio Transmission**
Bekiryazici Z., Merdan M., Kesemen T.
7th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA), Kyiv, Ukraine, 28 - 31 August 2018, vol.2037
- XXVIII. **Investigation of the moments for a random model of cholera disease**
Merdan M., Kesemen T., BEKİRYAZICI Z.
International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 3 - 07 July 2017, pp.253
- XXIX. **Stochastic Zeeman Heartbeat Models with Two and Three Dimensions**
Merdan M., BEKİRYAZICI Z., Oral P.
II. International Symposium on Multidisciplinary Studies, Roma, Italy, 18 - 21 May 2017, vol.1, pp.97-107
- XXX. **Analysis of Random Two and Three Dimensional Zeeman Modeling**
Merdan M., Oral P., BEKİRYAZICI Z.
II. International Symposium on Multidisciplinary Studies, Roma, Italy, 18 - 21 May 2017, vol.1, pp.83-96
- XXXI. **Investigation of Zeeman Models with Time Delays**
Oral P., Merdan M., BEKİRYAZICI Z.
II. International Symposium on Multidisciplinary Studies, Roma, Italy, 18 - 21 May 2017, pp.101
- XXXII. **Application of Differential Transformation Method for Solving Some Random Partial Differential Equations**
Merdan M., Kesemen T., Anac H., BEKİRYAZICI Z.
International Conference on Mathematics and Mathematics Education, Şanlıurfa, Turkey, 11 - 13 May 2017, pp.430-

- XXXIII. **Analysis of Random Zeeman Heartbeat Model by Modified Differential Transformation Method**
Oral P., Merdan M., BEKİR YAZICI Z.
International Conference on Mathematics and Mathematics Education, Şanlıurfa, Turkey, 11 - 13 May 2017, pp.428-429
- XXXIV. **Moments of Epidemic Models with Random Initial Data**
BEKİR YAZICI Z., Merdan M., Kesemen T.
International Conference on Mathematics and Engineering, İstanbul, Turkey, 10 - 12 May 2017, pp.360
- XXXV. **Analyzing the Moments of the Classical Epidemic Model under Random Effects**
Merdan M., BEKİR YAZICI Z., Kesemen T.
International Conference on Mathematics and Engineering, İstanbul, Turkey, 10 - 12 May 2017, pp.343
- XXXVI. **Analysing the Early-Stage Dynamics of a Model for Ebola Virus Under Random Effects**
Merdan M., BEKİR YAZICI Z., Kesemen T.
International Workshop on Mathematical Methods in Engineering, Ankara, Turkey, 27 - 29 April 2017, pp.51
- XXXVII. **Analyzing Mathematical Models of Various Diseases under Random Conditions**
BEKİR YAZICI Z.
Probability in mathematics and physics, Darmstadt, Germany, 27 - 31 March 2017, pp.14
- XXXVIII. **Stochastic Modeling of Immune-Mediated Disorder in Inflammatory Bowel Disease**
Merdan M., BEKİR YAZICI Z., Kesemen T., Khaniyev T.
1st International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, pp.3092
- XXXIX. **Some Statistical Characteristics of the Biochemical Reaction Model under Triangular Random Effects**
BEKİR YAZICI Z., Kesemen T., Merdan M., BEKTAŞ KAMIŞLIK A.
Xth International Statistics Days Conference, Giresun, Turkey, 7 - 09 October 2016, pp.354-360
- XL. **Stochastic and Random Behavior Model for Immune System Response and Bacterial Resistance with Antibiotic Therapy**
BEKİR YAZICI Z., Merdan M., Khaniyev T., Kesemen T.
5th International Eurasian Conference on Mathematical Sciences and Applications, Belgrad, Serbia And Montenegro, 16 - 19 August 2016, pp.128-129
- XLI. **Modelling of Dengue Disease under Laplacian Random Effects**
BEKİR YAZICI Z., Kesemen T., Merdan M., Najmuldeen M.
International Conference on Mathematics and Mathematics Education, Elazığ, Turkey, 12 - 14 May 2016, pp.142-143
- XLII. **Random Modelling of Biochemical Reactions under Gaussian Random Effects**
BEKİR YAZICI Z., Merdan M., Kesemen T., Khaniyev T.
International Conference on Mathematics and Mathematics Education, Elazığ, Turkey, 12 - 14 May 2016, pp.192-193
- XLIII. **Stochastic and deterministic stability of models for hepatitis C**
Merdan M., Bekiryazici Z., Kesemen T.
7th International Conference on Mathematical Analysis, Differential Equations and their Applications, Baku, Azerbaijan, 8 - 13 September 2015, pp.114

Supported Projects

BEKİR YAZICI Z., KESEMEN T., MERDAN M., HANALIOĞLU T., Project Supported by Higher Education Institutions, Zika Virüsü Yayılımının Matematiksel Modelinin Rastgele Koşullarda Analizi, 2019 - 2021

Bekiryazıcı Z., Kesemen T., Merdan M., Bektaş KAMIŞLIK A., Oral P., Project Supported by Higher Education Institutions, Biyokimyasal Reaksiyon Modelinin Deterministik and Stokastik Kararlılık Analizi, 2016 - 2019

Bekiryazıcı Z., Merdan M., Karakullukçu A., Anaç H., Project Supported by Higher Education Institutions, Bağışıklık sisteminin CD8 T hücreleri ile tepkisinin matematik modelinin kararlılığı ve rastgele davranışları, 2017 - 2018

Memberships / Tasks in Scientific Organizations

Society for Industrial and Applied Mathematics, Member, 2019 - Continues, United States Of America

Matematikçiler Derneği, Member, 2016 - Continues, Turkey

Peer Reviews in Scientific Publications

PEERJ COMPUTER SCIENCE, Journal Indexed in SCI-E, January 2025

International Journal of Dynamics and Control, Journal Indexed in ESCI, December 2024

MATHEMATICAL AND COMPUTER MODELLING OF DYNAMICAL SYSTEMS, Journal Indexed in SCI-E, December 2023

MATHEMATICAL METHODS IN THE APPLIED SCIENCES, Journal Indexed in SCI-E, January 2023

QUALITATIVE THEORY OF DYNAMICAL SYSTEMS, Journal Indexed in SCI-E, September 2022

INTERNATIONAL JOURNAL OF BIOMATHEMATICS, Journal Indexed in SCI-E, May 2022

JOURNAL OF COMPUTATIONAL BIOLOGY, Journal Indexed in SCI-E, October 2021

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

International Journal of Nonlinear Analysis and Applications, Journal Indexed in ESCI, June 2021

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, Journal Indexed in ESCI, October 2020

MATHEMATICAL METHODS IN THE APPLIED SCIENCES, Journal Indexed in SCI-E, October 2020

MATHEMATICAL MODELLING OF NATURAL PHENOMENA, Journal Indexed in SCI-E, August 2020

ADVANCES IN DIFFERENCE EQUATIONS, Journal Indexed in SCI-E, May 2020

Gümüşhane Üniversitesi Fen Bilimleri Dergisi, Other Indexed Journal, April 2020

JOURNAL OF APPLIED PROBABILITY AND STATISTICS, Other Indexed Journal, April 2020

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, Journal Indexed in ESCI, April 2020

Iğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Other Indexed Journal, July 2019

INTERNATIONAL JOURNAL OF BIOMATHEMATICS, Journal Indexed in SCI-E, October 2018

Gümüşhane Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Other Indexed Journal, March 2018

INTERNATIONAL JOURNAL OF BIOMATHEMATICS, Journal Indexed in SCI-E, January 2018

Scientific Research / Working Group Memberships

Computational Techniques For Tabletop Games Heritage (European Cooperation In Science And Technology (Cost) Action - Ca22145), Université Catholique de Louvain, Belgium, <https://gametable.network/index.html>, 2024 - Continues

Metrics

Publication: 72

Citation (WoS): 40

Citation (Scopus): 54

H-Index (WoS): 3

H-Index (Scopus): 3

Congress and Symposium Activities

12th International Conference on Applied Analysis and Mathematical Modeling, Attendee, İstanbul, Turkey, 2024

6th International Conference on Research in Applied Mathematics and Computer Science, Attendee, Marrakush, Morocco, 2024

7th International Conference on Mathematics: An Istanbul Meeting for World Mathematicians, Session Moderator, İstanbul, Turkey, 2023

2nd International E-Conference on Mathematical and Statistical Science: A Selcuk Meeting, Attendee, Konya, Turkey, 2023
5th International Conference on Research in Applied Mathematics and Computer Science, Attendee, Casablanca, Morocco, 2023
4th International Conference on Applied Engineering and Natural Sciences, Attendee, Konya, Turkey, 2022
8th International IFS and Contemporary Mathematics Conference, Attendee, Mersin, Turkey, 2022
International Online Conferences on Engineering and Natural Sciences, Attendee, Gümüşhane, Turkey, 2021
9th International Eurasian Conference on Mathematical Sciences and Applications, Attendee, Skopje, Macedonia, 2020
11th International Statistics Congress, Attendee, Muğla, Turkey, 2019
3rd International Conference on Advanced Engineering Technologies, Attendee, Bayburt, Turkey, 2019
7th International Eurasian Conference on Mathematical Sciences and Applications, Attendee, Kyiv, Ukraine, 2018
International Conference on Mathematics: An Istanbul Meeting for World Mathematicians, Attendee, İstanbul, Turkey, 2018
International Conference on Mathematics and Mathematics Education, Attendee, Ordu, Turkey, 2018
International Conference on Applied Analysis and Mathematical Modeling, Attendee, İstanbul, Turkey, 2017
International Conference on Mathematics and Engineering, Attendee, İstanbul, Turkey, 2017
International Workshop on Mathematical Methods in Engineering, Attendee, Ankara, Turkey, 2017
Spring School: Probability in Mathematics and Physics, Attendee, Darmstadt, Germany, 2017
1st International Mediterranean Science and Engineering Congress, Attendee, Adana, Turkey, 2016
10th International Statistics Days Conference, Attendee, Giresun, Turkey, 2016
5th International Eurasian Conference on Mathematical Sciences and Applications, Attendee, Belgrade, Serbia, 2016
International Conference on Mathematics and Mathematics Education, Attendee, Elazığ, Turkey, 2016
7th International Conference of Mathematical Analysis, Differential Equations and their Applications, Attendee, Baku, Azerbaijan, 2015
Statistical Inference for Levy Processes, Attendee, Leiden, Netherlands, 2014