

Asst. Prof. ARZU BİLGİN

Personal Information

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International Researcher IDs

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Education Information

Post Doctorate, University of Rhode Island, College of Art and Sciences, Mathematics, United States Of America 2019 - 2019

Doctorate, University of Rhode Island, College Of Art And Sciences, Applied Mathematics, United States Of America 2011 - 2016

Postgraduate, University of New Hampshire, College Of Art And Sciences, Applied Mathematics, United States Of America 2009 - 2010

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Vocational Training, Firat'ta Uygulamali Matematik ve Muhendislik Yaz Okulu, Firat Universitesi, 2021

Dissertations

Doctorate, Global Dynamics of Some Discrete Dynamical Systems with Applications, University of Rhode Island, Mathematics , Aplied Mathematics, 2016

Postgraduate, Comparative Analysis of Four Different One-Dimensional Flexible Structure, University of New Hampshire, Mathematics And Statistics, Applied Mathematics, 2010

Research Areas

Population Biology, Differential Equations, Dynamic Systems and Ergodic Theory, Economics, Social Sciences and Behavioral Sciences, Global Analysis, Analysis on Manifolds, Partial Differential Equations

Academic Titles / Tasks

Assistant Professor, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2023 - Continues
Research Assistant PhD, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2018 - Continues
Lecturer PhD, University of Rhode Island, College Of Art And Sciences, Applied Mathematics, 2016 - 2017
Lecturer, Johnson & Wales University, College of Sciences and Liberal Arts, Mathematics, 2016 - 2017

Academic and Administrative Experience

Erasmus Program Department Coordinator, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2023 - Continues

Farabi Coordinator, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2018 - Continues

Courses

Fundamentals of Mathematics, Undergraduate, 2022 - 2023

Statistics, Undergraduate, 2016 - 2017

Calculus II, Undergraduate, 2016 - 2017

Global Character of Difference Equations I, Postgraduate, 2016 - 2017

Introduction to Difference Equations, Postgraduate, 2016 - 2017

Calculus, Undergraduate, 2016 - 2017

Applied Calculus, Undergraduate, 2014 - 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Global Dynamics of a Cooperative Discrete System in the Plane**
Bilgin A., Brett A., Kulenovic M. R. S., Pilav E.
INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS, vol.28, no.7, 2018 (SCI-Expanded)
- II. **Global Asymptotic Stability for Discrete Single Species Population Models**
BİLGİN A., Kulenovic M. R. S.
DISCRETE DYNAMICS IN NATURE AND SOCIETY, 2017 (SCI-Expanded)
- III. **Basins of attraction of period-two solutions of monotone difference equations**
BİLGİN A., Kulenovic M. R. S., Pilav E.
ADVANCES IN DIFFERENCE EQUATIONS, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **Global Attractivity for Nonautonomous Difference Equation via Linearization**
BİLGİN A., Kulenovic M. R.
JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, vol.23, pp.1311-1322, 2017 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **Two Dimensional Continuous Lotka-Volterra Systems in Difference Equations**
Bilgin A.
ICDEA (International Conference on Difference Equations and Applications), Sarajevo, Bosnia And Herzegovina, 26 - 30 July 2021, pp.18-19
- II. **The Global Attractivity of Linearizable Scalar Difference Equations**
Bilgin A.

5th International Conference on Computational Mathematics and Engineering Sciences, Van, Turkey, 8 - 10 June 2021, pp.25

- III. **The Dynamical Scenarios of a Combination of Holling Type Functions**
Bilgin A.
E-Conference on Mathematical Advances and Applications, İstanbul, Turkey, 26 - 29 May 2021, pp.11-12
- IV. **Coexistence of Period-Two Solutions of a Cooperative System**
Bilgin A.
AMS Eastern Sectional Meeting, Rhode Island, United States Of America, 20 March 2021 - 21 March 2022, pp.32-33
- V. **Global Dynamics for Discrete Models in Population Dynamics of Single Species**
Bilgin A.
2019 JMM (Joint Mathematics Meeting), Maryland, United States Of America, 16 - 19 January 2019, pp.18-19
- VI. **Basins of Attraction of Period- Two Solutions of Monotone Difference Equations**
Bilgin A.
2018 JMM (Joint Mathematics Meeting), California, United States Of America, 10 - 13 January 2018, pp.11-12
- VII. **Basins of Attraction of Period- Two Solutions of Monotone Difference Equations**
Bilgin A., Pilav E., Kulenovic M.
2016 AMS Fall Eastern Sectional Meeting, Maine, United States Of America, 24 - 25 September 2016, pp.18-19
- VIII. **Global Dynamics of Cooperative Discrete System In The Plane,**
Bilgin A., Brett A., Pilav E., Kulenovic M.
AMS Fall Eastern Sectional Meeting, New Jersey, United States Of America, 14 - 15 November 2015, pp.27-28
- IX. **Global Attractivity for NonAutonomous Difference Equation via Linearization**
Bilgin A., Kulenovic M.
ICDEA (International Conference on Difference Equations), Bialystok, Poland, 19 - 25 July 2015, pp.22-23
- X. **Global Asymptotic Stability for Discrete Single Species Biological Models**
Bilgin A., Kulenovic M.
Progress on Difference Equations, İzmir, Turkey, 21 - 24 May 2014, pp.27

Memberships / Tasks in Scientific Organizations

international society of difference equations (ISDE), Member, 2019 - Continues, United States Of America
American Mathematical Society, Member, 2018 - Continues, United States Of America

Scientific Refereeing

ADVANCES IN DIFFERENCE EQUATIONS, Journal Indexed in SCI-E, May 2021
DISCRETE DYNAMICS IN NATURE AND SOCIETY, Journal Indexed in SCI-E, May 2021

Metrics

Publication: 14
Citation (WoS): 7
Citation (Scopus): 13
H-Index (WoS): 2
H-Index (Scopus): 2

Congress and Symposium Activities

ICDEA (International Conference on Difference Equations and Applications), Invited Speaker, Sarajevo, Bosnia And

Herzegovina, 2021

5th International Conference on Computational Mathematics and Engineering Sciences , Invited Speaker, Van, Turkey, 2021

E-Conference on Mathematical Advances and Applications, Invited Speaker, İstanbul, Turkey, 2021

AMS Eastern Sectional Meeting, Invited Speaker, Rhode Island, United States Of America, 2021

Joint Mathematical Meetings, Session Moderator, Maryland, United States Of America, 2019

JMM (Joint Mathematics Meeting), Session Moderator, Maryland, United States Of America, 2019

JMM (Joint Mathematics Meeting), Session Moderator, California, United States Of America, 2018

AMS Fall Eastern Sectional Meeting, Invited Speaker, Maine, United States Of America, 2016

AMS Fall Eastern Sectional Meeting, Invited Speaker, New Jersey, United States Of America, 2015

ICDEA (International Conference on Difference Equations), Invited Speaker, Bialystok, Poland, 2015

PODE (Progress on Difference Equations), Invited Speaker, İzmir, Turkey, 2014

Scholarships

MEB YURT DIŐI LİSANSÜSTÜ ÖĐRENİM BURSLULUK PROGRAMI (YLSY) , Ministry of Education, 2007 - 2017

Awards

Bilgin A., Visiting researcher, 2 months, University Of Rhode Island, July 2018

Bilgin A., Kahramanmaras Sutcu Imam Universitesi Fen Edebiyat Fakultesi Matematik Boluđ Birinciligi, Kahramanmaras Sutcu Imam Universitesi, July 2006