Lect. DENİZ ALAÇAM

Personal Information

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International Researcher IDs
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Education Information

Doctorate, Georgia State University, School of Arts and Sciences, Mathematics and Statistics, United States Of America 2012 - 2018
Postgraduate, Boston University, Schoool of Arts and Sciences, Mathematics, United States Of America 2009 - 2011
Undergraduate, Ankara University, Faculty Of Scıence, Department Of Mathematıcs, Turkey 2003 - 2007

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Modeling rhythm generation in swim central pattern generator ofMelibe Leonina, Georgia State University, 2017

Research Areas

Differential Equations, Dynamic Systems and Ergodic Theory

Academic Titles / Tasks

Lecturer, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, MATEMATİK, 2018 - Continues

Courses

Diferensiyel ve İntegral Hesap, Undergraduate, 2017 - 2018
Matematik I, Undergraduate, 2017 - 2018
Temel Matematik, Associate Degree, 2017 - 2018
Temel Matematik II, Undergraduate, 2017 - 2018

Bilgisayara Giriş, Undergraduate, 2017 - 2018
Matematik II, Undergraduate, 2017 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

I. **A method for capturing dynamic spectral coupling in resting fMRI reveals domain-specific patterns in schizophrenia**
Alacam D., Miller R., Agcaoglu O., Preda A., Ford J., Calhoun V.
FRONTIERS IN NEUROSCIENCE, vol.17, 2023 (SCI-Expanded)

II. **A mathematical model of Chenopodium album L. dynamics under copper-induced stress**
Gonzalez-Ramirez L. R., ALAÇAM D., AKPINAR A.
ECOLOGICAL MODELLING, vol.469, 2022 (SCI-Expanded)

III. **Dynamics and bifurcations in multistable 3-cell neural networks**
Collens J., Pusuluri K., Kelley A., Knapper D., Xing T., Basodi S., ALAÇAM D., Shilnikov A. L.
CHAOS, vol.30, no.7, 2020 (SCI-Expanded)

IV. **Making a Swim Central Pattern Generator Out of Latent Parabolic Bursters**
Alacam D., Shilnikov A.
INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS, vol.25, no.7, 2015 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. **A Multi-dimensional Joint ICA Model with Gaussian Copula**
Agcaoglu O., Silva R. F., Alacam D., Calhoun V.
Workshops hosted by the 22nd International Conference on Image Analysis and Processing, ICIAP 2023, Udine, Italy, 11 - 15 September 2023, vol.14366, pp.152-163

II. **Dynamical Systems and Bifurcatiom Theory**
ALAÇAM D.
Complex Systems and Data Science Workshop, İstanbul, Turkey, 18 - 19 May 2019

III. **Intrinsic Mechanisms for Rhythm Generations in Central Pattern Generators**
ALAÇAM D., Shilnikov A.
School and Workshop on Patterns of Synchrony: Chimera States, Trieste, Italy, 6 - 18 May 2019

IV. **Modeling Sea Slug Swim Central Pattern Generators of Melibe Leonina**
ALAÇAM D., Shilnikov A.
Volga Neuroscience Meeting, Nizhnij-Novgorod, Russia, 22 - 27 July 2018

V. **Modeling Sea Slug Swim Central Pattern Generators of Melibe Leonina,**
ALAÇAM D., Shilnikov A.
Dynamics Bifurcations Chaos V, Nizhnij-Novgorod, Russia, 16 - 20 July 2018

VI. **Bifurcation Theory and Phase-Lag Variance in 3-Node Neuronal Networks**
Collens J., ALAÇAM D., Kelly A., Xing T., Shilnikov A.
SIAM Conference on Applications of Dynamical Systems, Salt Lake City, United States Of America, 21 - 25 May 2017

VII. **Saga of Modeling Melibe Swim CPG,**
ALAÇAM D., Shilnikov A.
SIAM Conference on Applications of Dynamical Systems, Salt Lake City, United States Of America, 21 - 25 May 2017

VIII. **Network Bursting in Sea Slug Swim CPGs**
ALAÇAM D., Katz P., Sakurai A., Shilnikov A.
IEEE International Workshop onComplex Systems and Networks, Atlanta, United States Of America, 14 - 15 November 2016

IX. **Polyrhythmic and recurrent pattern generationin three-node CPG networks**
Collens J., ALAÇAM D., Knapper D., Xing T., Kelly A., Schwabedal J., Shilnikov A.

Emory University Poster Palooza, Atlanta, United States Of America, 05 October 2016

X. **Stability and bifurcations of rhythms in neuronal networks**
ALAÇAM D., Shilnikov A.
American Institute of Mathematical Science Conference, Orlando, United States Of America, 1 July - 05 May 2016

XI. **Network Bursting in Swim CPGs**
ALAÇAM D., Shilnikov A.
rain Behavior AnnualRetreat, Atlanta, United States Of America, 22 April 2016

XII. **Phase-lag variance and bifurcation theory in neural networks**
Collens J., ALAÇAM D., Knapper D., Shilnikov A.
Brain Behavior Annual Retreat, Atlanta, United States Of America, 22 April 2016

XIII. **Network Bursting in the Melibe Swim CPG**
ALAÇAM D., Shilnikov A.
Annual Meeting of the Society for Mathematical Biology, Atlanta, United States Of America, 30 June - 03 July 2015

XIV. **Intrinsic Mechanisms for Pattern Generation in Three-Node Networks**
Collens J., Kelly A., ALAÇAM D., Xing T., Knapper D., Schwabedal J., Shilnikov A.
SIAM Conference on Applications of Dynamical Systems, Salt Lake City, United States Of America, 17 - 21 May 2015

XV. **Making Half Center Oscillators Out of Parabolic Non-Bursters**
ALAÇAM D., Shilnikov A.
SIAM Conference onApplications of Dynamical Systems, Salt Lake City, 17 - 21 May 2015

XVI. **Parabolic Bursting in Swim CPG Models**
ALAÇAM D., Shilnikov A.
Georgia State University Brain BehaviorAnnual Retreat, Atlanta, United States Of America, 20 April 2015

XVII. **Parabolic Network Bursting in Inhibitory Neural Circuits**
ALAÇAM D., Shilnikov A.
Georgia Scientific ComputingSymposium, Atlanta, United States Of America, 28 February 2015

XVIII. **Network Bursting in Inhibitory Neural Circuits,**
ALAÇAM D., Shilnikov A.
SIAM Conference on the Life Sciences, Charlottetown, Canada, 4 - 07 August 2014

XIX. **Latent Bursters in Swim CPGs**
ALAÇAM D., Shilnikov A.
Brain Modes, Atlanta, United States Of America, 10 December 2015 - 11 December 2011

Metrics

Publication: 23
Citation (WoS): 6
Citation (Scopus): 7
H-Index (WoS): 1
H-Index (Scopus): 1