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Education Information

Doctorate, Istanbul University, Institute of Graduate Studies In Sciences, Matematik, Turkey 2010 - 2019
Postgraduate, Istanbul University, Institute of Graduate Studies In Sciences, Matematik, Turkey 2007 - 2010
Undergraduate, Istanbul University, Faculty Of Science, Matematik, Turkey 2003 - 2007

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Zaman Gecikmeli ve Belirsiz Yapay Sinir Ağlarının Kararlılık Analizi, Istanbul University, Institute of Graduate Studies In Sciences, Matematik/Matematik, 2019
Postgraduate, GENELLEŞTİRİLMİŞ LİNEER MODELLERDE MODEL SEÇİMİ ÜZERİNE ALTERNATİF BİR YAKLAŞIM, Istanbul University, Institute of Graduate Studies In Sciences, Matematik, 2010

Research Areas

Differential Equations, Dynamic Systems and Ergodic Theory, Linear and Multilinear Algebra: Matrix Theory, System Theory: Control

Academic Titles / Tasks

Associate Professor, Istanbul University, Faculty of Science, Department of Mathematics, 2022 - Continues
Assistant Professor, Istanbul University, Faculty of Science, Department of Mathematics, 2020 - 2022
Research Assistant, Istanbul University, Faculty of Science, Department of Mathematics, 2009 - 2019

Academic and Administrative Experience

İstanbul Üniversitesi, Faculty of Science, Matematik , 2009 - 2019

Published journal articles indexed by SCI, SSCI, and AHCI

I. **The combined Lyapunov functionals method for stability analysis of neutral Cohen–Grossberg neural networks with multiple delays**
    FAYDASIÇOK Ö., ARIK S.
    Neural Networks, vol.180, 2024 (SCI-Expanded)

II. **Sampled-data control for Markovian switching neural networks with output quantization and packet dropouts**
    Chen Y., Zhang X., Yan Z., FAYDASIÇOK Ö., ARIK S.
    Journal of the Franklin Institute, vol.361, no.18, 2024 (SCI-Expanded)

III. **Robust stability of dynamical neural networks with multiple time delays: a review and new results**
    Aktas E., FAYDASIÇOK Ö., ARIK S.
    Artificial Intelligence Review, vol.56, pp.1647-1684, 2023 (SCI-Expanded)

IV. **A general framework for robust stability analysis of neural networks with discrete time delays**
    Solak M., FAYDASIÇOK Ö., ARIK S.
    Neural Networks, vol.162, pp.186-198, 2023 (SCI-Expanded)

V. **A novel Lyapunov stability analysis of neutral-type Cohen–Grossberg neural networks with multiple delays**
    Faydasıçok Ö., Arık S.
    NEURAL NETWORKS, vol.155, pp.330-339, 2022 (SCI-Expanded)

VI. **NOVEL CRITERIA FOR ROBUST STABILITY OF COHEN-GROSSBERG NEURAL NETWORKS WITH MULTIPLE TIME DELAYS**
    Faydasıçok Ö., Arık S., Ketencigil M. M.
    DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES S, pp.1-15, 2022 (SCI-Expanded)

VII. **DEEP NEURAL NETWORKS AS A TOOL TO ESTIMATION OF COSMIC RADIATION DOSE RECEIVED ON FLIGHT**
    YILMAZ A., YILMAZ ALAN H., FAYDASIÇOK Ö., Susam L., Samli R., AKKUŞ B., Erol A., GÜDEKLİ E., Inci C. I., EMİRHAN M. E.
    UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A-APPLIED MATHEMATICS AND PHYSICS, vol.84, no.2, pp.187-202, 2022 (SCI-Expanded)

VIII. **ESTIMATION OF COSMIC RADIATION DOSE RECEIVED ON FLIGHT BY MEANS OF DIFFERENT MACHINE LEARNING METHODS AND CARI-7A CALCULATIONS**
    YILMAZ ALAN H., YILMAZ ALAN H., FAYDASIÇOK Ö., Susam L., ŞAMLI R., AKKUŞ B., Erol A., GÜDEKLİ E., İnci Ç. İ., EMİRHAN M. E.
    Romanian Journal of Physics, vol.67, no.1-2, 2022 (SCI-Expanded)

IX. **FURTHER STABILITY ANALYSIS OF NEUTRAL-TYPE COHEN-GROSSBERG NEURAL NETWORKS WITH MULTIPLE DELAYS**
    FAYDASIÇOK Ö.
    DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES S, vol.14, no.4, pp.1245-1258, 2021 (SCI-Expanded)

X. **An improved Lyapunov functional with application to stability of Cohen-Grossberg neural networks of neutral-type with multiple delays**
    FAYDASIÇOK Ö.
    NEURAL NETWORKS, vol.132, pp.532-539, 2020 (SCI-Expanded)

XI. **A new Lyapunov functional for stability analysis of neutral-type Hopfield neural networks with multiple delays**
    FAYDASIÇOK Ö.
    NEURAL NETWORKS, vol.129, pp.288-297, 2020 (SCI-Expanded)

XII. **New Results on Stability of Delayed Cohen-Grossberg Neural Networks of Neutral Type**

FAYDASIÇOK Ö.

COMPLEXITY, vol.2020, 2020 (SCI-Expanded)

XIII. **New criteria for global stability of neutral-type Cohen-Grossberg neural networks with multiple delays**

FAYDASIÇOK Ö.

NEURAL NETWORKS, vol.125, pp.330-337, 2020 (SCI-Expanded)

XIV. **An analysis of stability of uncertain neural networks with multiple time delays**

Faydasicok O., Arik S.

JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, vol.350, no.7, pp.1808-1826, 2013 (SCI-Expanded)

XV. **A new upper bound for the norm of interval matrices with application to robust stability analysis of delayed neural networks**

Faydasicok O., Arik S.

NEURAL NETWORKS, vol.44, pp.64-71, 2013 (SCI-Expanded)

XVI. **A new robust stability criterion for dynamical neural networks with multiple time delays**

Faydasicok O., Arik S.

NEUROCOMPUTING, vol.99, pp.290-297, 2013 (SCI-Expanded)

XVII. **Robust stability analysis of a class of neural networks with discrete time delays**

Faydasicok O., Arik S.

NEURAL NETWORKS, pp.52-59, 2012 (SCI-Expanded)

XVIII. **Further analysis of global robust stability of neural networks with multiple time delays**

Faydasicok O., Arik S.

JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, vol.349, no.3, pp.813-825, 2012 (SCI-Expanded)

XIX. **Equilibrium and stability analysis of delayed neural networks under parameter uncertainties**

Faydasicok O., Arik S.

APPLIED MATHEMATICS AND COMPUTATION, vol.218, no.12, pp.6716-6726, 2012 (SCI-Expanded)

Articles Published in Other Journals

I. **A NEW CRITERION FOR STABILITY OF NEUTRAL-TYPE HOPFIELD NEURAL NETWORKS WITH CONSTANT DELAYS**

Faydasıçok Ö.

Uludağ Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.25, no.2, pp.639-650, 2020 (Peer-Reviewed Journal)

II. **Stability Analysis of Neutral-Type Hopfield Neural Networks with Discrete Delays**

Faydasıçok Ö.

Avrupa Bilim ve Teknoloji Dergisi, vol.2020, no.19, pp.515-523, 2020 (Peer-Reviewed Journal)

III. **An Analysis of Global Stability of a Class of Neutral-Type Neural Systems with Time Delays**

FAYDASIÇOK Ö., arık s.

International Journal of Mathematical, Computational, Physical, Electrical and Computer Engineering, vol.6, pp.391-395, 2012 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **A New Lyapunov Stability Analysis of Neutral Systems with Multiple Delays**

FAYDASIÇOK Ö., ARIK S.

2024 International Conference on Control, Automation and Diagnosis, ICCAD 2024, Paris, France, 15 - 17 May 2024

II. **An Analysis of Stability of Multiple Delayed Cohen-Grossberg Neural Networks of Neutral Type**
Faydasıçok Ö., Arık S.
7th International Conference on Mathematics and Computers in Sciences and Industry, Athens, Greece, 22 - 24 August 2022, pp.1-5

III. **Stability Analysis of Neutral-Type Hopfield Neural Networks with Multiple Delays**
Faydasıçok Ö.
21st Conference on Engineering Applications of Neural Networks, Halkida, Greece, 5 - 07 June 2020, pp.558-568

IV. **A Novel Condition for Stability of Cohen-Grossberg Neural Networks of Neutral-Type with Discrete Delays**
FAYDASIÇOK Ö.
2nd International Conference on Electrical, Communication and Computer Engineering, ICECCE 2020, İstanbul, Turkey, 12 - 13 June 2020

V. **A new robust stability result for delayed neural networks**
Faydasıçok Ö., Çiçek C., Arık S.
25. International Conference on Neural Information Processing, ICONIP 2018,, Siem-Reab, Cambodia, 12 - 16 December 2018, pp.343-352

VI. **A novel criterion for global asymptotic stability of neutral-type neural networks with discrete time delays**
FAYDASIÇOK Ö., arık s.
25. International Conference on Neural Information Processing, ICONIP 2018, Siem Reap, Cambodia, 12 - 16 December 2018, pp.353-360

VII. **A new robust stability result for delayed neural networks**
FAYDASIÇOK Ö., ÇİÇEK C., arık s.
25. International Conference on Neural Information Processing, ICONIP 2018, Siem Reap, Cambodia, 12 - 16 December 2018, pp.343-352

VIII. **A new sufficient condition for robust stability of delayed neural networks**
Faydasıçok Ö., Çiçek C., Arık S.
33. International Technical Conference on Circuits Systems, Computers and Communications, ITC-CSCC201, Bangkok, Thailand, 4 - 07 July 2018, pp.248-251

IX. **Stability analysis of neutral-type neural networks with constant time delay**
FAYDASIÇOK Ö., arık s.
33. International Technical Conference on Circuits Systems, Computers and Communications, ITC-CSCC2018, Bangkok, Thailand, 4 - 07 July 2018, pp.29-32

X. **A new sufficient condition for robust stability of delayed neural networks**
FAYDASIÇOK Ö., ÇİÇEK C., arık s.
33. International Technical Conference on Circuits Systems, Computers and Communications, ITC-CSCC2018, Bangkok, Thailand, 4 - 07 July 2018, pp.248-251

XI. **An alternative approach on model selection in Generalized Linear Models**
FAYDASIÇOK Ö., AKAY K. U.
International Conference on Trends and Perspectives in Linear Statistical Inference, LINSTAT2010, Tomar, Portugal, 27 - 31 July 2010, pp.142

Activities in Scientific Journals

Mathematical Modelling and Control, Scientific Committee Membership, 2021 - Continues

Scientific Refereeing

FRACTAL AND FRACTIONAL, SCI Journal, August 2022

JOURNAL OF EXPERIMENTAL & THEORETICAL ARTIFICIAL INTELLIGENCE, SCI Journal, August 2022
ADVANCES IN DIFFERENCE EQUATIONS, Journal Indexed in SCI-E, July 2021
COGNITIVE NEURODYNAMICS, Journal Indexed in SSCI, April 2021
NEURAL NETWORKS, SCI Journal, February 2020
NEURAL PROCESSING LETTERS, SCI Journal, January 2020
IEEE TRANSACTIONS ON NEURAL NETWORKS AND LEARNING SYSTEMS, SCI Journal, January 2020
IEEE TRANSACTIONS ON NEURAL NETWORKS AND LEARNING SYSTEMS, SCI Journal, December 2019
NEURAL COMPUTING & APPLICATIONS, Journal Indexed in SSCI, December 2019
Neural Computing and Applications, Journal Indexed in SSCI, April 2013
IEEE Transactions on Neural Networks and Learning Systems, SCI Journal, February 2013
Neurocomputing, Journal Indexed in SSCI, January 2013
Neural Processing Letters, SCI Journal, December 2012
Abstract and Applied Analysis, SCI Journal, June 2012
Nonlinear Dynamics, SCI Journal, January 2012
IEEE Transactions on Circuits and Systems-I, SCI Journal, December 2011

Metrics

Publication: 33
Citation (WoS): 412
Citation (Scopus): 435
H-Index (WoS): 9
H-Index (Scopus): 10

Congress and Symposium Activities

22. International Conference on Neural Information Processing, ICONIP 2015, Attendee, İstanbul, Turkey, 2015
Ulusal Karmaşık Dinamik Sistemler ve Uygulamaları, Attendee, ANKARA, Turkey, 2012
International Conference on Computer Mathematics and Natural Computing/An Analysis of Global Stability of a Class of
Neutral-Type Neural Systems with Time Delays, Attendee, VENEDİK, Italy, 2012
International Conference on Trends and Perspectives in Linear Statistical Inference/An Alternative Approach on Model
Selection in Generalized Linear Models, Attendee, TOMAR, Portugal, 2010