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Education Information

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği , Turkey 2012 - 2018

Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği , Turkey 2010 - 2012

Undergraduate, Erciyes University, Mühendislik Fakültesi, Elektrik- Elektronik Mühendisliği, Turkey 2006 - 2010

Dissertations

Doctorate, ALTERNATIVE MODELS AND HARDWARE APPROACHES FOR THE REALIZATION OF THE NEUROMORPHIC CENTRAL PATTERN GENERATORS , Erciyes University, Rektörlük, Rektörlük, 2018

Postgraduate, BİYOLOJİK NÖRON MODELLERİNİN ELEKTRONİK DONANIMLARININ İNCELENMESİ , Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği , 2012

Research Areas

Electrical and Electronics Engineering, Electronic, Electronic Circuits, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Erciyes University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği , 2010 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A New Nonlinear Ion Drift Model of Memristor Element and its Versatile Analog Reconfigurable Realizations**
Randrianantenaina J. L., Baran A. Y., KORKMAZ N., KILIÇ R.
Journal of Circuits, Systems and Computers, 2023 (SCI-Expanded)
- II. **Evaluating the effectiveness of several synchronization control methods applying to the electrically and the chemically coupled hindmarsh-rose neurons**
Çimen Z., KORKMAZ N., Altuncu Y., KILIÇ R.
BioSystems, vol.198, 2020 (SCI-Expanded)
- III. **An Alternative Approach for Setting the Optimum Coupling Parameters Among the Neural Central**

Pattern Generators Considering the Amplitude and the Phase Error Calculations

KORKMAZ N., KILIÇ R.

NEURAL PROCESSING LETTERS, vol.50, no.1, pp.645-667, 2019 (SCI-Expanded)

IV. A Comparative Study on Determining Nonlinear Function Parameters of the Izhikevich Neuron Model

KORKMAZ N., Ozturk I., KALINLI A., KILIÇ R.

JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS, vol.27, no.10, 2018 (SCI-Expanded)

V. Modeling, simulation, and implementation issues of CPGs for neuromorphic engineering applications

KORKMAZ N., Ozturk I., KILIÇ R.

COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.26, no.4, pp.782-803, 2018 (SCI-Expanded)

VI. The investigation of chemical coupling in a HR neuron model with reconfigurable implementations

KORKMAZ N., Ozturk I., KILIÇ R.

NONLINEAR DYNAMICS, vol.86, no.3, pp.1841-1854, 2016 (SCI-Expanded)

VII. Multiple perspectives on the hardware implementations of biological neuron models and programmable design aspects

KORKMAZ N., Ozturk I., KILIÇ R.

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, no.3, pp.1729-1746, 2016 (SCI-Expanded)

VIII. Implementations of Modified Chaotic Neural Models with Analog Reconfigurable Hardware

KORKMAZ N., KILIÇ R.

INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS, vol.24, no.4, 2014 (SCI-Expanded)

IX. Experimental realizations of the HR neuron model with programmable hardware and synchronization applications

Dahasert N., Ozturk I., KILIÇ R.

NONLINEAR DYNAMICS, vol.70, no.4, pp.2343-2358, 2012 (SCI-Expanded)

Articles Published in Other Journals

I. Experimenting Chaos with Chaotic Training Boards

KILIÇ R., KORKMAZ N.

CMSIM An International Journal of Nonlinear Science, 2016 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. Coupling the FitzHugh-Nagumo Neuron Model with Memristive Synapse Structure in Neuromorphic Systems Nöromorfik Sistemlerde FitzHugh-Nagumo Nöron Modelinin Memristif Sinaps Yapisi ile Kuplajlanmasi

BARAN A. Y., Korkmaz N., KILIÇ R.

2021 Innovations in Intelligent Systems and Applications Conference, ASYU 2021, Elazığ, Turkey, 6 - 08 October 2021

II. The Identification of the Error Values Between the Coupled Synchronous FHN Neurons by Using Two Different Controllers

Çimen Z., Korkmaz N., Altuncu Y., Kılıç R.

Elektrik, Elektronik ve Biyomedikal Mühendisliği Konferansı, ELECO 2018, Bursa, Turkey, 30 November - 01 December 2018, pp.47-51

III. Hardware Verification: Determining the Parameters of the Modified Izhikevich Neuron Model with Genetic Algorithm

KORKMAZ N., Ozturk I., KALINLI A., KILIÇ R.

10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 November -

02 December 2017, pp.588-592

- IV. **Parameter Estimations for the Modified Izhikevich Neuron Model with Optimization Methods**
KORKMAZ N., KILIÇ R., KALINLI A., ÖZTÜRK İ.
10th Chaotic Modeling and Simulation International Conference, Barselona, Spain, 30 May - 02 June 2017, pp.70
- V. **A Comparative Study on Experimental Realizations of Multiscroll Chaos Generators**
KILIÇ R., KORKMAZ N., ÖZTÜRK İ.
The 9th Chaotic Modeling and Simulation International Conference, Londra, United Kingdom, 23 - 26 May 2016, pp.51
- VI. **Reconfigurable Implementations of PWL-Based Multiscroll Chaos Generator**
ARIK S., KORKMAZ N., Ozturk I., KILIÇ R., GÜNAY E.
8th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 28 - 30 November 2013, pp.604-608
- VII. **On the flexible hardware solutions of biological neuron models and synchronization applications**
Korkmaz N., Kılıç R.
21th International Conference on Nonlinear Dynamics of Electronics Systems, Bari, Italy, 10 - 13 July 2013, pp.11
- VIII. **An Introductory Study For Chaos Training Board Series**
KILIÇ R., KORKMAZ N., GÜNAY E.
21th International Conference on Nonlinear Dynamics of Electronics Systems, Bari, Italy, 10 - 13 July 2013, pp.1
- IX. **ON THE FLEXIBLE HARDWARE SOLUTIONS OF BIOLOGICAL NEURON MODELS AND SYNCHRONIZATION APPLICATIONS**
KORKMAZ N., KILIÇ R.
International Conference on Nonlinear Dynamics of Electronics Systems (NDES), 10 - 12 July 2013
- X. **Merkezi Desen Üreteçleri için Donanımsal Çözümler**
GÜNAY E., KILIÇ R., DAHASERT N., ÖZTÜRK İ.
ELECO 2012-ELEKTRİK - ELEKTRONİK ve BİLGİSAYAR MÜHENDİSLİĞİ SEMPOZYUMU, Bursa, Turkey, 1 - 04 January 2012, pp.332-335
- XI. **SC-CNN Based n-scroll Generator:Implementation Issues and Experimental Verification**
KILIÇ R., GÜNAY E., DAHASERT N.
NDES2012-The 20th International Conference on Nonlinear Dynamics of Electronics Systems (NDES), Wolfenbüttel, Germany, 1 - 04 January 2012, pp.165-168
- XII. **Izhikevich nöron modelinin alan programlanabilir elemanlarla gerçekleştirimi**
DAHASERT N., ÖZTÜRK İ., KILIÇ R.
SİU2012-20. IEEE Sinyal İşleme ve Uygulamaları Kurultayı, Antalya, Turkey, 1 - 04 January 2012
- XIII. **External and Internal Control Applications for SC-CNN-Based Chaotic Circuit**
GÜNAY E., KILIÇ R., DAHASERT N.
ECCTD2011- European Conference on Circuit Theory and Design, Linköping, Sweden, 1 - 04 January 2011, pp.620-623

Supported Projects

KILIÇ R., KORKMAZ N., Project Supported by Higher Education Institutions, NÖROMORFOLOJİK MERKEZİ DESEN ÜRETEÇLERİNİN GERÇEKLEŞTİRİMİNDE ALTERNATİF MODEL VE DONANIM YAKLAŞIMLARI, 2016 - 2018

KILIÇ R., GÜNAY E., DAHASERT N., Project Supported by Higher Education Institutions, KAOTİK DEVRELER VE SİSTEMLERİN İNCELENMESİNE DÖNÜK EĞİTİM SETLERİNİN TASARIMI VE GERÇEKLEŞTİRİLMESİ, 2011 - 2014

KILIÇ R., DAHASERT N., Project Supported by Higher Education Institutions, "Biyolojik Nöron Modellerinin Elektronik Donanımlarının İncelenmesi", 2011 - 2012

Metrics

Publication: 27

Citation (WoS): 96

Citation (Scopus): 34

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H-Index (Scopus): 2