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Personal Information

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International Researcher IDs

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Education Information

Post Doctorate, Universita degli Studi di Trento, Department of Information Engineering and Computer Science, Italy 2024 - 2025

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Elektronik Ve Haberleşme Mühendisliği, Turkey 2013 - 2018

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Mühendisliği, Turkey 2011 - 2013

Undergraduate, Istanbul Technical University, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği, Turkey 2006 - 2011

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Memristor Simulator and Its Applications, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, 2018

Postgraduate, Input-Output Matched, High Dynamic Range, Si-Ge RF Mixer Design, Istanbul Technical University, Fen Bilimleri Enstitüsü, 2013

Research Areas

Electrical and Electronics Engineering, Electronic, Circuit Theory, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, 2018 - Continues

Research Assistant PhD, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication

Engineering, 2018 - 2018

Research Assistant, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, 2013 - 2018

Supervised Theses

Çam Taşkıran Z. G., Memristif sinaptik devreler için uyarlanabilir parçalı lineer yaklaşım, Postgraduate, B.ŞAHİNTEKİN(Student), 2024

Çam Taşkıran Z. G., Memristor based synapse design, Postgraduate, S.GÜNAKIN(Student), 2023

Çam Taşkıran Z. G., Kaotik ve biyometrik zaman serileri ile görüntü güvenliği, Postgraduate, R.CENKER(Student), 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **CC-CBTA-Based Floating Inductance Simulator with CM/VM PID Controllers**
Sagbas M., ÇAM TAŞKIRAN Z. G., AYTEN U. E.
Journal of Circuits, Systems and Computers, vol.33, no.8, 2024 (SCI-Expanded)
- II. **Temporal Convolutional Networks with RNN approach for chaotic time series prediction**
Dudukcu H. V., Taskiran M., Taskiran Z. G. C., Yildirim T.
Applied Soft Computing, vol.133, 2023 (SCI-Expanded)
- III. **A New Dynamical Circuit Based on CCII+, Physical Implementation and Synchronization**
Özçelik A. C., Taşkıran Z. G.
Journal of Circuits, Systems and Computers, vol.30, 2021 (SCI-Expanded)
- IV. **A New PID Controller Circuit Design Using CFOAs**
ÇAM TAŞKIRAN Z. G., SEDEF H., Anday F.
CIRCUITS SYSTEMS AND SIGNAL PROCESSING, vol.40, no.3, pp.1166-1182, 2021 (SCI-Expanded)
- V. **Application and Modeling of a Novel 4D Memristive Chaotic System for Communication Systems**
ŞAHİN M. E., ÇAM TAŞKIRAN Z. G., GÜLER H., HAMAMCI S. E.
CIRCUITS SYSTEMS AND SIGNAL PROCESSING, vol.39, no.7, pp.3320-3349, 2020 (SCI-Expanded)
- VI. **A new universal mutator circuit for memcapacitor and meminductor elements**
Çam Taşkıran Z. G., Sağbaş M., Ayten U. E., Sedef H.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.119, 2020 (SCI-Expanded)
- VII. **Realization of memristor-based chaotic rossler circuit**
Taskiran Z. G., Sedef H.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.35, no.2, pp.765-774, 2020 (SCI-Expanded)
- VIII. **A novel memristive true random number generator design**
Çam Z. G., Taşkıran M., Killoğlu M., Kahraman N., Sedef H.
COMPEL-THE INTERNATIONAL JOURNAL FOR COMPUTATION AND MATHEMATICS IN ELECTRICAL AND ELECTRONIC ENGINEERING, vol.38, no.6, pp.1931-1947, 2019 (SCI-Expanded)
- IX. **Simulation and implementation of memristive chaotic system and its application for communication systems**
Sahin M. E., Taskiran Z. G., Guler H., HAMAMCI S. E.
SENSORS AND ACTUATORS A-PHYSICAL, vol.290, pp.107-118, 2019 (SCI-Expanded)
- X. **Dual-Output Operational Transconductance Amplifier-Based Electronically Controllable Memristance Simulator Circuit**
Taskiran Z. G., Ayten U. E., Sedef H.
CIRCUITS SYSTEMS AND SIGNAL PROCESSING, vol.38, pp.26-40, 2019 (SCI-Expanded)
- XI. **Voltage Differencing Gain Amplifier-Based nth-Order Low-Pass Voltage-Mode Filter**
Taskiran Z. G., SEDEF H., Anday F.

JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS, vol.27, no.6, 2018 (SCI-Expanded)

- XII. **Novel Feature Extraction Methodology with Evaluation in Artificial Neural Networks Based Fingerprint Recognition System**
KAHRAMAN N., ÇAM TAŞKIRAN Z. G., TAŞKIRAN M.
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.25, pp.112-119, 2018 (SCI-Expanded)
- XIII. **A New Floating Memristance Simulator Circuit Based on Second Generation Current Conveyor**
Cam Z. G., Sedef H.
JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS, vol.26, no.2, 2017 (SCI-Expanded)

Articles Published in Other Journals

- I. **A Lorenz-like Chaotic OTA-C Circuit and Memristive Synchronization**
Aydın Ş. Z., Beken G. N., Çam Taşkıran Z. G.
CHAOS THEORY AND APPLICATIONS, vol.5, no.1, pp.52-58, 2023 (Peer-Reviewed Journal)
- II. **A novel analysis and applications of an introduced hyperchaotic system**
Telli E., ÇAM TAŞKIRAN Z. G.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.28, no.5, pp.701-709, 2022 (ESCI)
- III. **Random number generator and secure communication applications based on infinitely many coexisting chaotic attractors**
Noor A., ÇAM TAŞKIRAN Z. G.
Electrica, vol.21, no.2, pp.180-188, 2021 (ESCI)
- IV. **Second Generation Current Conveyor Based Floating FractionalOrder Memristance Simulator and a New Dynamical System**
Çam Taşkıran Z. G., Taşkıran M.
CYBERNETICS AND INFORMATION TECHNOLOGIES, vol.20, no.5, pp.68-80, 2020 (ESCI)
- V. **THE NOVEL METHOD FOR RECOGNITION OF AMERICAN SIGN LANGUAGE WITH RING PROJECTION AND DISCRETE WAVELET TRANSFORM**
Taşkıran M., Çimen S., Çam Z. G.
World Journal of Engineering Research and Technology, vol.4, no.1, pp.1-10, 2018 (Peer-Reviewed Journal)
- VI. **A NEW CHAOTIC ATTRACTOR FOR RANDOM NUMBER GENERATION BASED ON MEMRISTIVE CIRCUIT**
Çam Z. G., Taşkıran M., Kahraman N., Sedef H.
World Journal Of Engineering Research and Technology, vol.4, pp.1-10, 2018 (Peer-Reviewed Journal)

Papers Published in Refereed Scientific Meetings

- I. **Human Activity Recognition with Ensemble Learning**
Düdükcü H. V., Taşkıran M., Çam Taşkıran Z. G., Kahraman N.
2024 26th International Conference on Digital Signal Processing and its Applications (DSPA), Moscow, Russia, 27 - 29 March 2024, pp.1-6
- II. **Memristör Tabanlı Çok Katmanlı Algılayıcı ve Ağırlık Uyarlaması**
Günakın S., Çam Taşkıran Z. G.
2nd International Conference on Innovative Academic Studies, 28 January - 31 March 2023, vol.2, pp.474-480
- III. **Yörünge Farklılıklarının Multimedya Güvenliğine Etkisi**
CENKER R., ÇAM TAŞKIRAN Z. G.
8. Uluslararası Marmara Fen Bilimleri Kongresi, Kocaeli, Turkey, 13 - 14 May 2022, pp.437-444
- IV. **Comprehensive comparison of LSTM variations for the prediction of chaotic time series**
DÜDÜKÇÜ H. V., TAŞKIRAN M., ÇAM TAŞKIRAN Z. G.
2021 International Conference on INnovations in Intelligent SysTems and Applications, INISTA 2021, Kocaeli,

Turkey, 25 - 27 August 2021

- V. **Chaotic oscillator based true random number generator Kaotik osilatör tabanlı gerçek rassal sayı üretici**
Ozcelik A. C., ÇAM TAŞKIRAN Z. G.
29th IEEE Conference on Signal Processing and Communications Applications, SIU 2021, Virtual, Istanbul, Turkey, 9 - 11 June 2021
- VI. **A New Fractional Order Memristance Simulator Circuit Design**
ÇAM Z. G., TAŞKIRAN M.
2019 IEEE International Symposium on INnovations in Intelligent SysTems and Applications (INISTA), Sofia, Bulgaria, 3 - 05 July 2019
- VII. **Chaotic Lorenz Synchronization Circuit Design for Secure Communication**
Deniz H. İ., ÇAM Z. G., SEDEF H.
IEEE 6th International Conference on Control Engineering Information Technology CEIT2018, İstanbul, Turkey, 25 - 27 October 2018
- VIII. **An Analog Chaotic Lorenz Circuit Based on CCII and Multiplier**
Deniz H. İ., ÇAM Z. G., SEDEF H.
2018 41st International Conference on Telecommunications and Signal Processing (TSP), Athens, Greece, 4 - 06 July 2018
- IX. **Wrist vein recognition by ordinary camera using Phase-Based correspondence matching**
Niyaz Ö., Çam Z. G., Yıldırım T.
2017 IASTED International Conference on Modelling, Identification and Control, MIC 2017, Innsbruck, Austria, 20 - 21 February 2017, vol.848, pp.89-93
- X. **Offline Signature Identification via HOG Features and Artificial Neural Networks**
Taşkiran M., Cam Z. G.
15th IEEE International Symposium on Applied Machine Intelligence and Informatics (SAMI), Herlany, Slovakia, 26 - 28 January 2017, pp.83-86
- XI. **Generalized regression neural network based efficient memristor modeling**
Cam Z. G., Cimen S., SEDEF H.
10th International Conference on Intelligent Systems and Control, ISCO 2016, Coimbatore, India, 7 - 08 January 2016
- XII. **An Efficient Method to Optimize Multi-Layer Perceptron for Classification of Human Activities**
Taşkiran M., Çam Z. G., Kahraman N.
2nd International Conference on Computer, Control and Communication Technologies (CCCT'15), Antalya, Turkey, 3 - 04 December 2015, vol.2
- XIII. **Çok Katmanlı Algılayıcı Ağının Eğitim Parametrelerinin Yapay Arı Kolonisi ve Genetik Algoritma ile Optimizasyonu**
ÇAM Z. G., Kartcı A., YILDIRIM T.
Akıllı Sistemlerde Yenilikler ve Uygulamaları (ASYU) Sempozyumu, İzmir, Turkey, 9 - 10 October 2014, pp.73-76
- XIV. **Learning Parameter Optimization of Multi-Layer Perceptron Using Artificial Bee Colony, Genetic Algorithm and Particle Swarm Optimization**
Çam Z. G., Cimen S., Yıldırım T.
IEEE 13th International Symposium on Applied Machine Intelligence and Informatics (SAMI), Herl'any, Slovakia, 22 - 24 January 2015, pp.329-332
- XV. **Input and output matched SiGe RF mixer with high dynamic range**
ÇAM Z. G., PALAMUTÇUOĞULLARI O.
2013 8th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 28 - 30 November 2013
- XVI. **Input and output matched SiGe RF Mixer with High Dynamic Range**
ÇAM Z. G., PALAMUTÇUOĞULLARI O.
Microwave Symposium (MMS), 2013 13th Mediterranean, 2 - 05 September 2013
- XVII. **Simultaneously matched SiGe transistor RF mixer with high dynamic range**

ÇAM Z. G., PALAMUTÇUOĞULLARI O.

2013 21st Signal Processing and Communications Applications Conference (SIU), Haspolat, Turkey, 24 - 26 April 2013

XVIII. **High Gain, Linear, Low Cost Digitally Controlled VHF-UHF Analog Transponder for Nano Satellites**

Ceylan O., Ozen O. E., Canbey H. H., Cam Z. G., Yağcı H. B.

3rd Asia-Pacific Microwave Conference Proceedings (APMC), Seoul, South Korea, 5 - 08 November 2013, pp.1027-1029

Supported Projects

Kahraman N., Çam Taşkıran Z. G., Taşkıran M., Düdükçü H. V., Horizon Europe Project, Smart Building Sensitive to Daily Sentiment (SUSTAIN), 2022 - 2026

İnsan A., Kahraman N., Çam Taşkıran Z. G., Taşkıran M., Çimen S., TUBITAK Project, Fatih Science and Technology Festival, 2022 - 2023

Çam Taşkıran Z. G., Taşkıran M., Düdükçü H. V., Project Supported by Higher Education Institutions, Decision-Level Fusion of Deep Learning Networks for Prediction of Chaotic Time Series, 2021 - 2022

Metrics

Publication: 37

Citation (WoS): 190

Citation (Scopus): 368

H-Index (WoS): 6

H-Index (Scopus): 10