

Lect. PhD Murat TAŞKIRAN

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: P-9395-2019

ScopusID: 57192081569

Yoksis Researcher ID: 216116



Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Elektronik ve Haberleşme Mühendisliği , Turkey 2016 - 2022

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Elektronik , Turkey 2014 - 2016

Undergraduate, Yildiz Technical University, Faculty Of Electrical & Electronics, Elektronik Ve Haberleşme Mühendisliği, Turkey 2007 - 2013

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Yüz İfadelerinin Görünüm Tabanlı ve Dinamik Özellikleri Kullanılarak Olumsuz Koşullar Altında Hibrit Yüz Tanıma, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, 2022

Postgraduate, İnverter Klima Akıllı Etkileşim Sistem Tasarımı, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Elektronik , 2016

Research Areas

Computer Sciences, Artificial Intelligence, Computer Learning and Pattern Recognition, Computer Learning, Human Computer Interaction, Neural Networks, Electrical and Electronics Engineering, Electronic, Electronic Circuits, Engineering and Technology

Academic Titles / Tasks

Lecturer PhD, Yildiz Technical University, Rectorate, -, 2022 - Continues

Lecturer, Yildiz Technical University, Rectorate, -, 2021 - 2022

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

Engineering, 2014 - 2021

Academic and Administrative Experience

Rektör Yardımcılığı Danışmanlığı, Yıldız Technical University, Rectorate, -, 2022 - Continues

Courses

Biyometri, Postgraduate, 2022 - 2023

Biyometrik Sistem Tasarımı, Doctorate, 2021 - 2022

Algoritma ve Programlama 1, Undergraduate, 2022 - 2023

Bilgisayar Mühendisliğine Giriş, Undergraduate, 2022 - 2023

Elektronik Devreler 1 Laboratuvarı, Undergraduate, 2022 - 2023

Research Infrastructure Information

Kahraman N., Taşkiran M., Dündükcü H. V., Saltürk S., Saltürk T., Makine Öğrenmesi ve Biyometrik Sistem Tasarımı Çalışma Grubu, September 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **A deep neural network based toddler tracking system**
Guney H., Aydin M., TAŞKIRAN M., KAHRAMAN N.
CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE, vol.34, no.14, 2022 (SCI-Expanded)
- III. **Blood glucose prediction with deep neural networks using weighted decision level fusion**
DÜDÜKÇÜ H. V., TAŞKIRAN M., YILDIRIM T.
BIOCYBERNETICS AND BIOMEDICAL ENGINEERING, vol.41, no.3, pp.1208-1223, 2021 (SCI-Expanded)
- IV. **Hybrid face recognition under adverse conditions using appearance-based and dynamic features of smile expression**
TAŞKIRAN M., KAHRAMAN N., EROĞLU ERDEM Ç.
IET BIOMETRICS, vol.10, no.1, pp.99-115, 2021 (SCI-Expanded)
- V. **Face recognition: Past, present and future (a review)**
Taşkiran M., Kahraman N., Eroğlu Erdem E.
DIGITAL SIGNAL PROCESSING, vol.106, 2020 (SCI-Expanded)
- VI. **A novel memristive true random number generator design**
Çam Z. G., Taşkiran M., Kılıhoğlu 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)
- VII. **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)

Articles Published in Other Journals

- I. **Deep learning based tobacco products classification**
TAŞKIRAN M., ÇİMEN S.
International Journal of Computing Science and Mathematics, vol.13, no.2, pp.167-176, 2021 (ESCI)
- II. **Second Generation Current Conveyor Based Floating Fractional Order 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)
- III. **Steganografi ve Şifreleme Kullanılarak Çoklu Biyometrik Sistemlerle Kimlik Doğrulama için Güvenli Veri İletimi**
Killoğlu M., TAŞKIRAN M., KAHRAMAN N.
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.24, no.2, pp.173-179, 2018 (ESCI)
- IV. **İnverter klima akıllı etkileşim sistem tasarımı**
Taşkıran M., Kahraman N., Usta Yoğun H.
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.24, no.2, pp.205-213, 2018 (Peer-Reviewed Journal)
- 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)

Refereed Congress / Symposium Publications in Proceedings

- I. **Instantaneous Power Consumption Prediction with Modified Temporal Convolutional Network for UAVs**
DÜDÜKÇÜ H. V., TAŞKIRAN M., KAHRAMAN N.
45th International Conference on Telecommunications and Signal Processing, TSP 2022, Virtual, Online, Czech Republic, 13 - 15 July 2022, pp.106-109
- II. **Physiotherapy Activities Classification with Deep Neural Networks**
Düdükcü H. V., Taşkıran M., Dudukcu M. Z.
2022 Innovations in Intelligent Systems and Applications Conference, ASYU 2022, Antalya, Turkey, 7 - 09 September 2022
- III. **Unmanned Aerial Vehicles (UAVs) Battery Power Anomaly Detection Using Temporal Convolutional Network with Simple Moving Average Algorithm**
DÜDÜKÇÜ H. V., TAŞKIRAN M., KAHRAMAN N.
16th International Conference on INnovations in Intelligent SysTems and Applications, INISTA 2022, Biarritz, France, 8 - 12 August 2022
- IV. **Consolidated or individual training: Which one is better for blood glucose prediction?**
DÜDÜKÇÜ H. V., TAŞKIRAN M., YILDIRIM T.
2021 International Conference on INnovations in Intelligent SysTems and Applications (INISTA), 25 August 2021
- V. **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
- VI. **LSTM and WaveNet Implementation for Predictive Maintenance of Turbofan Engines**
Düdükcü H. V., Taşkıran M., Kahraman N.
2020 IEEE 20th International Symposium on Computational Intelligence and Informatics (CINTI), 5 - 07 November 2020, pp.151-156
- VII. **Toddler Tracking System with Face Recognition and Object Tracking Using Deep Neural Network**

GÜNEY H., AYDIN M., TAŞKIRAN M., KAHRAMAN N.

2020 International Conference on INnovations in Intelligent SysTems and Applications (INISTA), Novi Sad, Serbia, Serbia, 24 - 26 August 2020

VIII. Breast Cancer Detection From Thermography Based on Deep Neural Networks

Kıymet S., Aslankaya M. Y., Taşkıran M., Bolat B.

2019 Innovations in Intelligent Systems and Applications Conference (ASYU), İzmir, Turkey, 31 October - 02 November 2019

IX. 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

X. Face Recognition Using Dynamic Features Extracted from Smile Videos

Taşkıran M., Killioğlu M., Kahraman N., Eroğlu Erdem Ç.

2019 IEEE International Symposium on INnovations in Intelligent SysTems and Applications (INISTA), Sofija, Bulgaria, 3 - 05 July 2019, pp.1-5

XI. Comparison of CNN Tolerances to Intra Class Variety in Food Recognition

TAŞKIRAN M., KAHRAMAN N.

2019 IEEE International Symposium on INnovations in Intelligent SysTems and Applications (INISTA), Sofia, Bulgaria, 3 - 05 July 2019

XII. A Real-Time System For Recognition Of American Sign Language By Using Deep Learning

TAŞKIRAN M., KILLIOĞLU M., KAHRAMAN N.

41st International Conference on Telecommunications and Signal Processing (TSP), Athens, Greece, 4 - 06 July 2018, pp.258-261

XIII. Anti-Spoofing In Face Recognition with LivenessDetection Using Pupil Tracking

killioğlu m., TAŞKIRAN M., KAHRAMAN N.

2017 IEEE 15th International Symposium on Applied Machine Intelligence and Informatics (SAMI), 26 - 28 January 2017

XIV. Offline Signature Identification via HOG Features and Artificial Neural Networks

Taşkıran M., Cam Z. G.

15th IEEE International Symposium on Applied Machine Intelligence and Informatics (SAMI), Herlany, Slovakia, 26 - 28 January 2017, pp.83-86

XV. Hardware Application of Human Machine Interface in Smart Air Conditioners Using Hand Tracking

Acay E., Kahraman N., Taşkıran M., Kıyan T., Usta Yoğun H.

IEEE 58th ELMAR Symposium, Zadar, Croatia, 12 - 14 September 2016, pp.269-272

XVI. An Efficient Method to Optimize Multi-Layer Perceptron for Classification of Human Activities

Taşkıran 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

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

Kahraman N., Taşkıran M., Technopark, MTHelper, 2022 - 2024

Karaçor K., Taşkıran M., Kahraman N., TUBITAK Project, Kimlik Bilgilerinin Otomatik Algılanması İçin Yapay Zeka ve Görüntü İşleme Temelli Model Gelistirme, 2022 - 2023

İnsan A., Kahraman N., Çam Taşkıran Z. G., Taşkıran M., Çimen S., TUBITAK Project, Fatih Bilim ve Teknoloji Şenliği, 2022 - 2023

Kahraman N., Taşkıran M., Technopark, Biyometrik Kimliklendirme Tabanlı Güvenlik Sistemlerinde Derin Öğrenme Uygulamaları, 2022 - 2023

Taşcı S. E., Kahraman N., Taşkıran M., TUBITAK Project, Yüz Tanıma Sistemlerinde Canlılık Tespiti, 2022 - 2023
Düdükcü H. V., Taşkıran M., Kahraman N., Project Supported by Higher Education Institutions, Flight Anomaly Detection in Unmanned Aerial Vehicles with Hybrid Deep Learning Method, 2021 - 2023
Kahraman N., Taşkıran M., Technopark, iOS ve Android mobil cihazlarda mobil uygulama testi yazılımı , 2022 - 2022
Taşkıran M., Kurtkaya B., Tezcan A., TUBITAK Project, Görüntü İşleme ile Gerçek Zamanlı Araç Yol Destek Sistemi, 2021 - 2022
Taşkıran M., Kahraman N., Technopark, Canlılık Analizi Yapan Araştırma ve Yazılım Geliştirme, 2021 - 2022
Çam Taşkıran Z. G., Taşkıran M., Düdükcü H. V., Project Supported by Higher Education Institutions, Kaotik Zaman Serilerinin Tahmini İçin Derin Öğrenme Ağlarının Karar Seviyesinde Füzyonu, 2021 - 2022
Kahraman N., Taşkıran M., Düdükcü H. V., Technopark, GÜVENLİK OLAY KAYITLARI ANOMALİ ANALİZ MODÜLÜ, 2021 - 2021
Taşkıran M., Aydın M., TUBITAK Project, TEN RENGİ SEGMENTASYONU VE HAREKET TESPİTİ İLE BEBEK TAKİP SİSTEMİ, 2019 - 2020
Eroğlu Erdem Ç., Kahraman N., TUBITAK Project, "Çok Kipli Doğal Yüz İfadesi Videolarından Yumuşak Biyometrik Veri Çıkarılması, 2017 - 2020
Kahraman N., Industrial Thesis Project, Inverter Klima Akıllı Etkileşim Sistemi Tasarımı, 2015 - 2017

Metrics

Publication: 29
Citation (WoS): 97
Citation (Scopus): 189
H-Index (WoS): 5
H-Index (Scopus): 6

Entrepreneurship Activities

Limited, ConfirmX Teknoloji Ltd. Şti., 17 December 2021, Co-Founder

Non Academic Experience

Company, Confirmx Teknoloji Ltd. Şti., Yazılım
Company, Belectric-Kuloğlu GES Teknolojisi A.Ş., Proje Geliştirme