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International Researcher IDs

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Publons / Web Of Science

ResearcherID: P-9395-2019

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Education Information

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

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

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

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

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Hybrid face recognition under adverse conditions using appearance-based and dynamic features of facial expressions, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, 2022

Postgraduate, Inverter air conditioner intelligent system design, Yıldız Technical University, 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

Assistant Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, 2023 - Continues

Lecturer PhD, Yildiz Technical University, Rectorate, -, 2022 - 2023

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

Advisor to Vice Rector, Yildiz Technical University, Rectorate, -, 2022 - 2024

Courses

Biometric System Design, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Elektronik Devreler 2 Laboratuvarı ve Proje, Undergraduate, 2023 - 2024, 2022 - 2023

Biometrics, Postgraduate, 2023 - 2024, 2022 - 2023

Electronic Circuits 1 Laboratory, Undergraduate, 2023 - 2024, 2022 - 2023

Algorithm and Programming 1, Undergraduate, 2022 - 2023

Introduction to Computer Engineering, Undergraduate, 2022 - 2023

Advising Theses

Taşkıran M., SENTIMENT ANALYSIS WITH DEEP LEARNING ALGORITHMS, Postgraduate, M.Çağrı(Student), 2024

Bolat B., Taşkıran M., Otonom Araçlarda Kişi Tespiti için Federe Öğrenmeye Dair Yeni Bir Yöntem, Postgraduate, E.AKPINAR(Student), 2024

Taşkıran M., BITCOIN PRICE FORECASTING APPROACHES WITH OPTUNA-BASED MACHINE LEARNING METHODS, Postgraduate, B.YILDIRIM(Student), 2024

Kahraman N., Taşkıran M., ANOMALY DETECTION IN UNMANNED AERIAL VEHICLES: A COMPREHENSIVE STUDY OF HYBRID DEEP NEURAL NETWORK METHODS FOR EDGE-BASED APPLICATIONS, Doctorate, H.Vildan(Student), 2024

Research Infrastructure Information

Kahraman N., Taşkıran M., Dündükçü H. V., Saltürk S., Saltürk T., Machine Learning and Biometric System Design Working Group, September 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **MYFED: a dataset of affective face videos for investigation of emotional facial dynamics as a soft biometric for person identification**
Saracbası Z. N., Erdem C. E., Taskiran M., Kahraman N.
MACHINE VISION AND APPLICATIONS, vol.36, no.8, pp.1-15, 2025 (SCI-Expanded)
- II. **Optimal induction machine parameter estimation method with artificial neural networks**
İpek S. N., Taşkıran M., Bekiroğlu K. N., Ayçiçek E.
Electrical Engineering, vol.106, no.2, pp.1959-1975, 2024 (SCI-Expanded)
- III. **Machine learning approach for GNSS geodetic velocity estimation**

- ÖZARPACI S., KILIÇ B., BAYRAK O. C., TAŞKIRAN M., DOĞAN U., Floyd M.
GPS Solutions, vol.28, no.2, 2024 (SCI-Expanded)
- IV. **UAV instantaneous power consumption prediction using LR-TCN with simple moving average**
Dudukcu H. V., Taskiran M., Kahraman N.
Concurrency and Computation: Practice and Experience, vol.36, no.3, 2024 (SCI-Expanded)
- V. **An AI based classifier model for lateral pillar classification of Legg–Calve–Perthes**
Soydan Z., Saglam Y., Key S., Kati Y. A., Taskiran M., Kiymet S., Salturk T., Aydin A. S., Bilgili F., Sen C.
Scientific Reports, vol.13, no.1, 2023 (SCI-Expanded)
- VI. **UAV sensor data applications with deep neural networks: A comprehensive survey**
Düdükcü H. V., Taşkıran M., Kahraman N.
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, vol.123, no.Part C, pp.1-17, 2023 (SCI-Expanded)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **Face recognition: Past, present and future (a review)**
Taşkıran M., Kahraman N., Eroğlu Erdem E.
DIGITAL SIGNAL PROCESSING, vol.106, 2020 (SCI-Expanded)
- XII. **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)
- XIII. **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. **Yinelemeli Sinir Ağlarıyla GNSS Verilerinde Birleştirilmiş ve Bireysel Model Karşılaştırılması**
Şimşek M., Taşkıran M., Doğan U.
GEOMATİK, vol.10, no.1, pp.65-74, 2025 (ESCI)
- II. **Deep Learning-Based Driver Assistance System**
Kurtkaya B., Tezcan A., TAŞKIRAN M.
Electrica, vol.23, no.3, pp.607-618, 2023 (ESCI)
- III. **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)
- 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. **Secure Data Transmission for Authentication with Multiple Biometric Systems Using Steganography and Encryption**

Killoğlu M., Taşkıran M., Kahraman N.

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.24, no.2, pp.173-179, 2018 (ESCI)

VI. Inverter air conditioner intelligent system design

Taşkıran M., Kahraman N., Usta Yoğun H.

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.24, no.2, pp.205-213, 2018 (Peer-Reviewed Journal)

VII. 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)

VIII. 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)

Books & Book Chapters

I. Time Series Prediction From Commercial Aircraft Acceleration Sensor Data with Deep Neural Networks: A Benchmark Study

Düdükcü H. V., Taşkıran M.

in: Academic Studies in Engineering, Prof. Dr. Çoşkun Özalp, Doç. Dr. Savaş Bayram, Doç. Dr. Mahmut Kayar, Editor, Gece Kitaplığı, Ankara, pp.33-46, 2023

II. ECG DATA ANOMALIES DETECTION WITH STACKED AUTOENCODER ON LOW-POWER AND LOW-MEMORY MICROCONTROLLERS

Düdükcü H. V., Taşkıran M.

in: Current Research in Engineering, Assoc. Prof. Dr. Selahattin Bardak, Assoc. Prof. Dr. Ümit Ayata, Editor, Gece Kitaplığı, Ankara, pp.275-289, 2023

Refereed Congress / Symposium Publications in Proceedings

I. A Benchmark Study in Sentiment Analysis with Deep Neural Networks

Elverişli M. Ç., Taşkıran M.

2024 5th International Conference on Electronic Communication and Artificial Intelligence (ICECAI), Shenzhen, China, 31 May - 02 June 2024, pp.1-5

II. Identification Of Equivalent Circuit Parameters Of Permanent Magnet Synchronous Machine With Cascade-Forward Neural Network

İpek S. N., Bekiroğlu K. N., Taşkıran M.

Grad Colloquium'24 Artificial Intelligence, İstanbul, Turkey, 04 June 2024, pp.36

III. Induction Machine Parameters Estimation with Recurrent Neural Network

İpek S. N., Taşkıran M., Bekiroğlu K. N., Ayçiçek E.

2nd Engineering International Conference on Electrical, Energy, and Artificial Intelligence (EICEEAI) 2023, Az-Zarqa, Jordan, 27 - 28 December 2023, pp.1-6

IV. An Optimal Flow for Face Recognition: Analysis/Effects of Face Detection, Alignment and Cropping Techniques

Gülşen M. F., Taşkıran M., Taşçı S. E., Kahraman N.

2024 26th International Conference on Digital Signal Processing and its Applications (DSPA), Moscow, Russia, 27 - 29 March 2024, pp.1-6

V. Optuna Based Optimized Transformer Model Approach in Bitcoin Time Series Analysis

Yıldırım B., Taşkıran M.

2024 26th International Conference on Digital Signal Processing and its Applications (DSPA), Moscow, Russia, 27 - 29 March 2024, pp.1-6

VI. 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

VII. **FedLDC: Federated Learning with Loss-Dependent Coefficients in Pedestrian Detection**

Akpınar E., Bolat B., Taşkıran M.

2024 11th International Conference on Signal Processing and Integrated Networks (SPIN), Noida, India, 21 - 22 March 2024, pp.256-261

VIII. **Ensemble Learning Methodologies for Electrocardiogram Analysis: A Comparative Study**

Yildirim B. E., Taskiran M., Bekiroğlu K. N.

2024 International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE), Bangaon, India, 24 - 25 January 2024, pp.1-6

IX. **Şubat 2023 Depremlerinin Bölgede Oluşturduğu Etkiler ve Yapay Zeka ile Afet Yönetim Planlaması**

Doğan U., Yüzer N., Acar U., Akbaba M. F., Akbulut M. T., Akgün C., Akın O., Akkaya H. C., Akpınar B., Aktaş Z., et al.

Türkiye Ulusal Jeodezi Komisyonu (TUJK) XXII. Sempozyumu 2023, Trabzon, Turkey, 29 November - 01 December 2023, pp.5-6

X. **A Fusion-Based Deep Neural Networks Approach for Face Liveness Detection**

Aydın M., Taskiran M., Kahraman N., Dudukcu H. V.

2023 International Conference on Innovations in Intelligent Systems and Applications (INISTA), Nabeul, Tunisia, 20 - 23 September 2023, pp.1-6

XI. **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

XII. **Physiotherapy Activities Classification with Deep Neural Networks**

Düdükçü H. V., Taşkıran M., Dudukcu M. Z.

2022 Innovations in Intelligent Systems and Applications Conference, ASYU 2022, Antalya, Turkey, 7 - 09 September 2022

XIII. **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

XIV. **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

XV. **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

XVI. **LSTM and WaveNet Implementation for PredictiveMaintenance of Turbofan Engines**

Düdükçü H. V., Taşkıran M., Kahraman N.

2020 IEEE 20th International Symposium on Computational Intelligence and Informatics (CINTI), 5 - 07 November 2020, pp.151-156

XVII. **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

XVIII. **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

XIX. **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

XX. **Face Recognition Using Dynamic Features Extracted from Smile Videos**

Taşkıran M., Killiođlu M., Kahraman N., Erođlu Erdem Ç.

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

- XXI. **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
- XXII. **A Real-Time System For Recognition Of American Sign Language By Using Deep Learning**
TAŞKIRAN M., KILLIOĐLU M., KAHRAMAN N.,
41st International Conference on Telecommunications and Signal Processing (TSP), Athens, Greece, 4 - 06 July 2018, pp.258-261
- XXIII. **Anti-Spoofing In Face Recognition with LivenessDetection Using Pupil Tracking**
killiođlu m., TAŞKIRAN M., KAHRAMAN N.,
2017 IEEE 15th International Symposium on Applied Machine Intelligence and Informatics (SAMI), 26 - 28 January 2017
- XXIV. **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
- XXV. **Hardware Application of Human Machine Interface in Smart Air Conditioners Using Hand Tracking**
Acay E., Kahraman N., Taşkıran M., Kıyan T., Usta Yođun H.,
IEEE 58th ELMAR Symposium, Zadar, Croatia, 12 - 14 September 2016, pp.269-272
- XXVI. **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

- İŞILDAK B., AMASYALI M. F., USLU E., KAHRAMAN N., TAŞKIRAN M., DÜDÜKÇÜ H. V., ÇAM TAŞKIRAN Z. G., BOLAT B., YAVUZ S., ÇAKMAK F., Project Supported by Higher Education Institutions, Derin Pekıştirmeli Öđrenme Tabanlı Hibrit Füze GÜdüm Sistemlerinin Geliřtirilmesi, 2024 - Continues
- Kahraman N., Çam Taşkıran Z. G., Taşkıran M., DÜdÜkçÜ H. V., Horizon Europe Project, Smart Building Sensitive to Daily Sentiment (SUSTAIN), 2022 - 2026
- Çam Taşkıran Z. G., DÜdÜkçÜ H. V., Taşkıran M., Kahraman N., Project Supported by Higher Education Institutions, Sensör Ađları için Uç Birimlerde Sensör Füzyonu ve Derin Öđrenme Yöntemleri ile Veri Analizi, 2023 - 2025
- Kahraman N., Taşkıran M., Technopark, Yapay Zeka Tabanlı MT Deđerlendirme Sistemi (CURES), 2024 - 2024
- Kahraman N., Taşkıran M., Technopark, Dynamic File Encryptor, 2024 - 2024
- Taşkıran M., Kahraman N., Technopark, Yüz Tanıma Sistemleri Arařtırma ve Yazılım Geliřtirme Projesi, 2023 - 2024
- Yüzer N., Yardım M. S., Turgut S., Yılmaz Genç S., Dikçınar Sel B., Erdem Okumuř D., Kılıç B., Özarpacı S., Bayrak O. C., Sakarya A., et al., Project Supported by Higher Education Institutions, řubat 2023 Depremlerinin Bölgede Oluřturduđu Etkiler ve Yapay Zeka ile Afet Yönetim Planlaması, 2023 - 2024
- DÜdÜkçÜ H. V., Taşkıran M., Kahraman N., A.ř. M. T., TUBITAK Project, Cloud-Based Smart Mobile Test Automation Assistant Development, 2022 - 2024
- Kahraman N., Taşkıran M., Technopark, MTHelper, 2022 - 2024
- Karaçor K., Taşkıran M., Kahraman N., TUBITAK Project, Artificial Intelligence and Image Processing Based Model Development for Automatic Detection of Identity Information, 2022 - 2023
- Taşcı S. E., Kahraman N., Taşkıran M., TUBITAK Project, Liveliness Detection in Facial Recognition Systems, 2022 - 2023
- İnsan A., Kahraman N., Çam Taşkıran Z. G., Taşkıran M., Çimen S., TUBITAK Project, Fatih Science and Technology Festival, 2022 - 2023
- Kahraman N., Taşkıran M., Technopark, Deep Learning Applications in Biometric Identification Based Security Systems, 2022 - 2023
- DÜdÜkçÜ 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, Mobile app testing software on iOS and Android mobile devices, 2022 - 2022
Taşkıran M., Kurtkaya B., Tezcan A., TUBITAK Project, Real Time Vehicle Road Support System with Image Processing, 2021 - 2022
Taşkıran M., Kahraman N., Technopark, Research and Software Development for Liveness Analysis, 2021 - 2022
Çam Taşkıran Z. G., Taşkıran M., Dündükçü H. V., Project Supported by Higher Education Institutions, Decision-Level Fusion of Deep Learning Networks for Prediction of Chaotic Time Series, 2021 - 2022
Kahraman N., Taşkıran M., Dündükçü H. V., Technopark, SECURITY EVENT LOGS ANOMALY ANALYSIS MODULE, 2021 - 2021
Taşkıran M., Aydın M., TUBITAK Project, TODDLER TRACKING SYSTEM WITH SKIN COLOR SEGMENTATION AND MOTION DETECTION, 2019 - 2020
Eroğlu Erdem Ç., Kahraman N., TUBITAK Project, "Soft Biometric Data Extraction from Multimodal Natural Facial Expression Videos, 2017 - 2020
Kahraman N., Industrial Thesis Project, Inverter air conditioner intelligent system design, 2015 - 2017

Scientific Refereeing

SIGNAL, IMAGE AND VIDEO PROCESSING, SCI Journal, July 2024

Metrics

Publication: 49

Citation (WoS): 256

Citation (Scopus): 465

H-Index (WoS): 7

H-Index (Scopus): 8

Entrepreneurship Activities

Limited, ConfirmX Technology Ltd., 17 December 2021, Co-Founder

Non Academic Experience

Company, Confirmx Teknology Ltd., Software

Company, Belectric-Kuloğlu Solar Energy Power Plants Technology Inc., Project Development