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Personal Information

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International Researcher IDs

ScholarID: WrfBoHIAAAAJ
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Publons / Web Of Science ResearcherID: ABA-3253-2020
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Yoksis Researcher ID: 250105

Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Elektronik ve Haberleşme Mühendisliği, Turkey 2018 - 2024
Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Elektronik Programı, Turkey 2015 - 2018
Undergraduate, Yildiz Technical University, Faculty Of Electrical & Electronics, Elektronik Ve Haberleşme Mühendisliği Bölümü, Turkey 2012 - 2015

Foreign Languages

English, C2 Mastery

Dissertations

Postgraduate, Automated insulin pump design based on probabilistic prediction algorithm, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Elektronik Programı, 2017

Research Areas

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

Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, 2016 - Continues

Research Infrastructure Information

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **UAV sensor data applications with deep neural networks: A comprehensive survey**
Dündükü H. V., Taşkiran M., Kahraman N.
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, vol.123, no.Part C, pp.1-17, 2023 (SCI-Expanded)
- III. **Temporal Convolutional Networks with RNN approach for chaotic time series prediction**
Dudukcu H. V., Taskiran M., Taskiran Z. G. C., Yıldırım T.
Applied Soft Computing, vol.133, 2023 (SCI-Expanded)
- IV. **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)

Articles Published in Other Journals

- I. **Noninvasive Glucose Measurement for Diabetes Mellitus Patients**
Dündükü H. V., Yıldırım T.
Current Trends in Biomedical Engineering Biosciences, vol.2, pp.1-3, 2017 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Time Series Prediction From Commercial Aircraft Acceleration Sensor Data with Deep Neural Networks: A Benchmark Study**
Dündükü H. V., Taşkiran 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**
Dündükü H. V., Taşkiran 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 Fusion-Based Deep Neural Networks Approach for Face Liveness Detection**
Aydin 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
- II. **Senkronize Diyabet Takibi Sistemi**
Kahraman M., Mutlu Ü., Ertürk M. A., Yıldız H., Dündükü H. V., Kurt S., Aydin M. A., Aydin N., Karan M. A., Karşıdağ K., et al.
58. Ulusal Diyabet Kongresi, Antalya, Turkey, 11 - 14 May 2022, pp.294-297
- III. **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

IV. 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

V. Physiotherapy Activities Classification with Deep Neural Networks

Dündükü H. V., Taşkiran M., Dudukcu M. Z.

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

VI. 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

VII. 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

VIII. LSTM and WaveNet Implementation for Predictive Maintenance of Turbofan Engines

Dündükü H. V., Taşkiran M., Kahraman N.

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

Supported Projects

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

Çam Taşkiran Z. G., Dündükü H. V., Taşkiran M., Kahraman N., Project Supported by Higher Education Institutions, Sensör Ağları için Uç Birimlerde Sensör Füzyonu ve Derin Öğrenme Yöntemleri ile Veri Analizi, 2023 - 2025

Dündükü H. V., Taşkiran M., Kahraman N., A.Ş. M. T., TUBITAK Project, Cloud-Based Smart Mobile Test Automation Assistant Development, 2022 - 2024

Dündükü H. V., Taşkiran M., Kahraman N., Project Supported by Higher Education Institutions, Flight Anomaly Detection in Unmanned Aerial Vehicles with Hybrid Deep Learning Method, 2021 - 2023

Çam Taşkiran Z. G., Taşkiran M., Dündükü 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., Taşkiran M., Dündükü H. V., Technopark, SECURITY EVENT LOGS ANOMALY ANALYSIS MODULE, 2021 - 2021

Karan M. A., TUBITAK Project, Senkronize Diyabet Takibi Sistemi, 2018 - 2021

Metrics

Publication: 15

Citation (WoS): 7

Citation (Scopus): 50

H-Index (WoS): 2

H-Index (Scopus): 3