

## Res. Asst. Hatice Vildan DÜDÜKÇÜ

### Personal Information

**Email:** vdudukcu@yildiz.edu.tr

**Web:** <https://avesis.yildiz.edu.tr/vdudukcu>

### International Researcher IDs

ScholarID: WrfBoHIAAAAJ

ORCID: 0000-0002-0314-6262

Publons / Web Of Science ResearcherID: ABA-3253-2020

ScopusID: 57221835731

Yoksis Researcher ID: 250105

### Education Information

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

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. **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. **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**  
Dūdükçü H. V., Yildirim T.  
Current Trends in Biomedical Engineering Biosciences, vol.2, pp.1-3, 2017 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Senkronize Diyabet Takibi Sistemi**  
Kahraman M., Mutlu Ü., Ertürk M. A., Yıldız H., Dūdükçü H. V., Kurt S., Aydın M. A., Aydın N., Karan M. A., Karşıdağ K., et al.  
58. Ulusal Diyabet Kongresi, Antalya, Turkey, 11 - 14 May 2022, pp.294-297
- II. **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
- III. **Physiotherapy Activities Classification with Deep Neural Networks**  
Dūdükçü H. V., Taşkıran M., Dudukcu M. Z.  
2022 Innovations in Intelligent Systems and Applications Conference, ASYU 2022, Antalya, Turkey, 7 - 09 September 2022
- IV. **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
- V. **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
- VI. **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
- VII. **LSTM and WaveNet Implementation for PredictiveMaintenance of Turbofan Engines**  
Dūdükçü H. V., Taşkıran M., Kahraman N.  
2020 IEEE 20th International Symposium on Computational Intelligence and Informatics (CINTI), 5 - 07 November

## Supported Projects

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

Ddk H. V., Aydođan . F., TUBITAK Project, Őehir İi Toplu TaŐıma Aralarında Grnt İŐleme ile KiŐi Yođunluđu Tespiti, 2022 - 2023

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

Çam TaŐkiran Z. G., TaŐkiran M., Ddk H. V., Project Supported by Higher Education Institutions, Kaotik Zaman Serilerinin Tahmini İin Derin đrenme Ađlarının Karar Seviyesinde Fzyonu, 2021 - 2022

Kahraman N., TaŐkiran M., Ddk H. V., Technopark, GVENLİK OLAY KAYITLARI ANOMALİ ANALİZ MODL, 2021 - 2021

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

## Metrics

Publication: 10

Citation (WoS): 7

Citation (Scopus): 13

H-Index (WoS): 2

H-Index (Scopus): 2