

## Res. Asst. ÇAĞDAŞ HİSAR

### Personal Information

Office Phone: [+90 0312 202 8535](tel:+9003122028535)

Email: [chisar@gazi.edu.tr](mailto:chisar@gazi.edu.tr)

Web: <https://avesis.gazi.edu.tr/10749>

### International Researcher IDs

ScholarID: u4gA33sAAAAJ

ORCID: 0000-0001-8278-3501

Publons / Web Of Science ResearcherID: AHB-5952-2022

ScopusID: 57261743200

Yoksis Researcher ID: 319781

### Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Dr), Turkey 2019 - Continues

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (YI) (Tezli), Turkey 2015 - 2019

Undergraduate, Selcuk University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 2016 - 2017

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Elektronik Ve Bilgisayar Eğitimi Bölümü, Turkey 2006 - 2012

### Dissertations

Postgraduate, Sabit mıknatıslı senkron motorlar için hız yörüngesi denetleyicisi tasarımı, Gazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (YI) (Tezli), 2019

### Research Areas

Electric Motor Drivers, Power Converters

### Academic Titles / Tasks

Research Assistant, Gazi University, Teknoloji Fakültesi, Otomotiv Mühendisliği, 2020 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- Artificial intelligence based switching frequency regulation with fast terminal sliding mode control for DC-DC step-down converters**  
Balta G., HİSAR Ç., ALTIN N.  
Expert Systems with Applications, vol.228, 2023 (SCI-Expanded)

## ARTICLES PUBLISHED IN OTHER JOURNALS

- I. **Fuzzy Logic Controller for Half Vehicle Active Suspension System: An Assessment on Ride Comfort and Road Holding**  
ÖZARSLAN YATAK M., HİSAR Ç., ŞAHİN F.  
International Journal of Automotive Science and Technology, vol.8, no.2, pp.179-187, 2024 (Scopus)
- II. **Design and Control of a Permanent Magnet Assisted Synchronous Reluctance Motor**  
Boudjelida L., Hisar Ç., Sefa İ.  
International Journal of Automotive Science and Technology, vol.7, no.4, pp.332-339, 2023 (Scopus)
- III. **Power system fault detection and notification with Wi-Fi**  
Çatalca Ü., Metin B. E., Özarslan Yatak M., Hisar Ç., Teke M.  
J Comp Electr Electron Eng Sci, vol.1, no.1, pp.15-19, 2023 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Integral Sliding Mode Controlled 3L-ANPC Based Bidirectional AFE Converter for DC Microgrids**  
Hisar Ç., Balta G., Sefa İ., Altın N., Özdemir Ş., Nasiri A.  
International Conference on Direct Current Microgrids, District Of Columbia, United States Of America, 5 - 08 August 2024, pp.1-6
- II. **Comparison of Nonsingular TSMC and Fast TSMC for Speed Regulation of Permanent Magnet Synchronous Motors**  
Balta G., Hisar Ç., Sefa İ., Altın N.  
International Conference on Experimental and Computational Engineering Sciences, Ankara, Turkey, 30 - 31 May 2024, pp.1-5
- III. **Fuzzy Logic Controller for Half Vehicle Active Suspension System: An Assessment on Ride Comfort and Road Holding**  
Özarslan Yatak M., Hisar Ç., Şahin F.  
The 3rd International Symposium on Automotive Science and Technology, Ankara, Turkey, 7 - 08 September 2023
- IV. **An Improved Fast Terminal Sliding Mode Control for Step-Down Converter**  
HİSAR Ç., BALTA G., ALTIN N., SEFA İ.  
2023 15th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Romania, 29 June 2023
- V. **Fixed-Frequency Sliding Mode Control in Synchronous Reference Frame for Three-Phase LCL Filtered Active Front-End Converter**  
HİSAR Ç., SEFA İ., ALTIN N.  
20th International Power Electronics and Motion Control Conference (PEMC), Brasov, Romania, 25 - 28 October 2022, pp.295-300
- VI. **Sliding Mode Control in Natural Reference Frame for Three-Phase LCL Filtered Active Front-End Converter**  
HİSAR Ç., SEFA İ., ALTIN N.  
14th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2022, Ploiesti, Romania, 30 June - 01 July 2022
- VII. **Model Predictive Control of a Bidirectional DC/DC Converter Used in Hybrid and Electric Vehicles**  
Hisar Ç., Sefa İ.  
INTERNATIONAL SYMPOSIUM ON AUTOMOTIVE SCIENCE AND TECHNOLOGY, Ankara, Turkey, 8 - 10 September 2021, pp.40-49
- VIII. **Processor-in-the-Loop Simulation of an Interleaved Buck Converter With MATLAB/Simulink**  
Hisar Ç., Sefa İ., Altın N.  
2021 13th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Pitesti, Romania, 1 - 03 July 2021, pp.1-5
- IX. **Development of a smooth traction control algorithm for an electric vehicle**  
Hisar Ç., Sefa İ.

3rd International ISIDE Conference on Industrial Design and Engineering, Antalya, Turkey, 22 - 25 November 2018, pp.1-6

- X. **Labview Tabanlı, Bilgisayar Destekli Gerçek Zamanlı EKG Cihazının Tasarımı**  
Canal M., Özkaraca O., Hisar Ç.  
Akademik Bilişim 2011, Malatya, Turkey, 2 - 04 February 2011, pp.1-8

## **Supported Projects**

ALTIN N., SEFA İ., HİSAR Ç., ÖZDEMİR Ş., Project Supported by Higher Education Institutions, Doğrudan OG Bağlantıya Uygun Şebeke Etkileşimli Evirici Tasarımı, 2022 - 2023

## **Metrics**

Publication: 14

Citation (Scopus): 11

H-Index (Scopus): 2