

## Res. Asst. ÇAĞDAŞ HİSAR

### Personal Information

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### International Researcher IDs

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

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### 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., Hisar Ç., Altın N.  
EXPERT SYSTEMS WITH APPLICATIONS, no.228, pp.1-11, 2023 (SCI-Expanded)

## ARTICLES PUBLISHED IN OTHER JOURNALS

### I. 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. Fuzzy Logic Controller for Half Vehicle Active Suspension System: An Assessment on Ride Comfort and Road Holding

ÖZARSLAN YATAK M., HİSAR Ç., ŞAHİN F.

The 3rd International Symposium on Automotive Science and Technology, Ankara, Turkey, 7 - 08 September 2023

### II. 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

### III. 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

### IV. 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

### V. 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

### VI. 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

### VII. 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

### VIII. 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

## Metrics

Publication: 10