

## Asst. Prof. HAKAN KAHVECİ

### Personal Information

Office Phone: [+90 462 377 2976](tel:+904623772976)

Email: [hknkahveci@ktu.edu.tr](mailto:hknkahveci@ktu.edu.tr)

Address: Karadeniz Teknik Üniversitesi Mühendislik Fakültesi Elektrik-Elektronik Müh. Değirmendere Ortahisar TRABZON

### Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği Anabilimdalı, Turkey  
2006 - 2013

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey  
2001 - 2006

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Doğrudan Sürürlü Elektrikli Araçlar İçin Bulanık Mantık Tabanlı Elektronik Diferansiyel sisteminin Gerçeklenmesi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Müh. Anabilimdalı (Elektrik Makinaları), 2013

### Research Areas

Electrical and Electronics Engineering, Power Electronics, Electrical Machine Theory and Design, Electric Motor Drivers, Engineering and Technology

### Academic Titles / Tasks

Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2018 - Continues  
Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü,  
2014 - 2018

Lecturer PhD, Karadeniz Technical University, Trabzon Meslek Yüksekokulu, Elektronik Ve Otomasyon, 2013 - 2014

Lecturer, Karadeniz Technical University, Trabzon Meslek Yüksekokulu, Elektronik Ve Otomasyon, 2010 - 2013

### Courses

Tasarım Projesi, Undergraduate, 2015 - 2016

### Jury Memberships

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **A simplified three-level SVM-DTC induction motor drive with speed and stator resistance estimation based on extended Kalman filter**  
Usta M. A. , OKUMUŞ H. İ. , KAHVECİ H.  
ELECTRICAL ENGINEERING, vol.99, no.2, pp.707-720, 2017 (Journal Indexed in SCI)
- II. **Improved brushless DC motor speed controller with digital signal processor**  
KAHVECİ H., OKUMUŞ H. İ. , Ekici M.  
ELECTRONICS LETTERS, vol.50, no.12, pp.864-865, 2014 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **An Experimental Study to Determine the Relationship Between Power Factor and Harmonic Distortion in Single-Phase AC Voltage Controller**  
ÇORAPSIZ M. R. , KAHVECİ H., ÇORAPSIZ M. F.  
Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, vol.7, no.1, pp.306-318, 2020 (Refereed Journals of Other Institutions)
- II. **Analysis and Suppressing Speed Fluctuations in Brushless DC Motors**  
ÇORAPSIZ M. R. , KAHVECİ H., ÇORAPSIZ M. F.  
Balkan Journal of Electrical and Computer Engineering, vol.7, pp.300-310, 2019 (Other Refereed National Journals)
- III. **Detailed Analysis of DC Choppers and An Example of PMDC Motor Speed Control**  
ÇORAPSIZ M. R. , ALIM B., KAHVECİ H.  
EASTERN ANATOLIAN JOURNAL OF SCIENCE, vol.4, no.1, pp.16-36, 2018 (Refereed Journals of Other Institutions)
- IV. **Single Input, Multiple Output DC-DC Buck Converter for Electric Vehicles**  
ADEN İ. A. , KAHVECİ H., ŞAHİN M. E.  
Turkish Journal of Electromechanics and Energy, vol.2, no.2, pp.7-13, 2017 (Refereed Journals of Other Institutions)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Minimization of Torque Ripples in Brushless DC Motors**  
ÇORAPSIZ M. R. , KAHVECİ H.  
3rd International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 19 - 21 September 2019, pp.366-373
- II. **Design and Implementation of Single-Phase AC Voltage Controller with Phase Triggering Control**  
ÇORAPSIZ M. R. , KAHVECİ H., ÇORAPSIZ M. F.  
3rd International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 19 - 21 September 2019, pp.491-497
- III. **Voltage Control Strategy for DC-DC Buck Boost Converter**  
ÇORAPSIZ M. R. , KAHVECİ H.  
4th INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL APPLIED SCIENCES, Ağrı, Turkey, 19 - 22 June 2019
- IV. **Real-Time Distance Measurement depend on Ambient Temperature**  
ÇORAPSIZ M. R. , ÇORAPSIZ M. F. , KAHVECİ H.  
4th INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL APPLIED SCIENCES, Ağrı, Turkey, 19 - 22 June 2019

- V. **A New Approach for Eliminating Speed Fluctuation in BLDC Motors**  
 ÇORAPSIZ M. R. , ÇORAPSIZ M. F. , KAHVECİ H.  
 6. INTERNATIONAL MULTIDISCIPLINARY STUDIES CONGRESS, Gaziantep, Turkey, 26 - 27 April 2019
- VI. **Two-Stage Power Converter Design and Control for Renewable Energy Systems**  
 Tezde E. I. , Demir M. M. , Gurel F. , Okumus H. I. , KAHVECİ H.  
 18th IEEE International Power Electronics and Motion Control Conference (IEEE PEMC), Budapest, Hungary, 26 - 30 August 2018, pp.457-462
- VII. **Sensorless Feedback Linearization Direct Torque Control (FBL-DTC) for Induction Motor Drive with Five-Level Cascaded H-Bridge Inverter**  
 Usta M. A. , Okumus H. I. , KAHVECİ H. , DURAK E. S.  
 18th IEEE International Power Electronics and Motion Control Conference (IEEE PEMC), Budapest, Hungary, 26 - 30 August 2018, pp.1025-1030
- VIII. **Selective Harmonic Elimination with Particle Swarm Optimization in Multilevel Inverters**  
 DURAK E. S. , OKUMUŞ H. İ. , Usta M. A. , KAHVECİ H.  
 18th IEEE International Power Electronics and Motion Control Conference (IEEE PEMC), Budapest, Hungary, 26 - 30 August 2018, pp.1019-1024
- IX. **Single Input Multiple Output DC/DC Buck Converter for Electric Vehicles**  
 ADEN İ. A. , KAHVECİ H. , Şahin M. E.  
 International Conference on Advanced Engineering Technologies (ICADET 2017), Bayburt, Turkey, 21 - 23 September 2017, pp.1-5
- X. **The Speed Control Of Dc Motor Under The Load Condition Using P<sub>1</sub> And P<sub>id</sub> Controllers**  
 ÇORAPSIZ M. R. , KAHVECİ H.  
 International Conference On Advances in Natural And Applied Sciences ICANAS 2017), Antalya, Turkey, 18 - 21 April 2017, pp.1-5
- XI. **The Speed Control of DC Motor under the Load Condition using PI and PID Controllers**  
 ÇORAPSIZ M. R. , KAHVECİ H.  
 2nd International Conference on Advances in Natural and Applied Sciences (ICANAS), Antalya, Turkey, 18 - 21 April 2017, vol.1833
- XII. **Temperature Measurement and Monitoring with Wireless Development Tool**  
 AYDIN M. , OKUMUŞ H. İ. , KAHVECİ H.  
 International Conference on Image Processing, Production and Computer Science, Londra, United Kingdom, 26 - 27 March 2016, pp.17-22
- XIII. **Periodic Price Averages Forecasting of MCP in Day-Ahead Market**  
 Senocak F. , KAHVECİ H.  
 National Conference on Electrical, Electronics and Biomedical Engineering (ELECO), Bursa, Turkey, 1 - 03 December 2016, pp.664-668
- XIV. **SLIDING MODE CONTROL OF PV POWERED DC/DC BUCK-BOOST CONVERTER WITH DIGITAL SIGNAL PROCESSOR**  
 Şahin M. E. , OKUMUŞ H. İ. , KAHVECİ H.  
 17th Conference on Power Electronics and Applications, EPE'15-ECCE Europe, Cenevre (Geneva), Switzerland, 8 - 10 September 2015, pp.1-5
- XV. **Sliding mode control of PV powered DC/DC Buck-Boost converter with digital signal processor**  
 ŞAHİN M. E. , OKUMUŞ H. İ. , KAHVECİ H.  
 17th European Conference on Power Electronics and Applications (EPE ECCE-Europe), Geneva, Switzerland, 8 - 10 September 2015
- XVI. **An electronic differential system using fuzzy logic speed controlled in-wheel brushless DC motors**  
 KAHVECİ H. , OKUMUŞ H. İ. , EKICI M.  
 2013 4th International Conference on Power Engineering, Energy and Electrical Drives, POWERENG 2013, İstanbul, Turkey, 13 - 17 May 2013, pp.881-885
- XVII. **A Fuzzy Logic Speed and Current Controller For Brushless DC Motors**  
 KAHVECİ H. , OKUMUŞ H. İ. , EKICI M.

IEEE International Symposium on INnovations in Intelligent SysTems and Applications (INISTA), Bulgaria, 19 - 21 June 2013

XVIII. **A LabVIEW Based Submarine Depth Control Simulator with PID and Fuzzy Controller**

EKICI M., KAHVECİ H., AKPINAR A. S.

IEEE International Symposium on INnovations in Intelligent SysTems and Applications (INISTA), Bulgaria, 19 - 21 June 2013

XIX. **A Novel Fuzzy Logic Speed Controller for Brushless DC Motors**

KAHVECİ H., OKUMUŞ H. İ.

9th International Conference on Electronics Computer and Computation (ICECCO 2012), Ankara, Turkey, 1 - 03 November 2012, pp.167-170

## Supported Projects

OKUMUŞ H. İ. , KAHVECİ H., TUBITAK Project, Üç Seviyeli Evirici Ile Dsp Tabanlı Hız Geribeslemesiz Ve Doğrudan Moment Kontrollü Motor Sürücü Tasarımı Ve Gerçeklenmesi, 2016 - Continues

ALTAŞ İ. H. , KAYIKÇIOĞLU T., ÇAVDAR İ. H. , ÖZKOP E., SEVİM Y., ÇAKIR O., HACIOĞLU G., YAZGAN A., KAYA H., NUROĞLU F. M. , et al, Project Supported by Higher Education Institutions, ElektrikElektronik Mühendisliği Bölümü Lisans Laboratuvarları Altyapısının İyileştirilmesi, 2016 - 2017

BİLGİN A., OKUMUŞ H. İ. , ASLAN M., KAHVECİ H., BAYRAKTAR H., ŞAHİN Z., Project Supported by Higher Education Institutions, Elektrikli ve Hidromobil Taşıt geliştirme Laboratuvarı Kurulması, 2015 - 2015

KAHVECİ H., Project Supported by Other Official Institutions, Otomatik Tıbbi Kart Test Okuma ve Değerlendirme Sistemi, 2011 - 2012

## Citations

Total Citations (WOS):18

h-index (WOS):2

## Non Academic Experience

Business Establishment Private, Türk Telekom A.Ş.