

## **Personal Information**

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## **Education Information**

Doctorate, Karabük Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Dr), Turkey 2011 - 2016

Post Graduate, Karabük Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Y) (Tezli), Turkey 2009 - 2011

Under Graduate, Fırat Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 2005 - 2009

## **Dissertations**

Doctorate, KISMİ GÖLGELENME ALTINDA ÇALIŞAN YENİ BİR MAKSİMUM GÜÇ NOKTASI İZLEME (MPPT) METODU İÇEREN PV SİSTEMİ GELİŞTİRİLMESİ, Karabük Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Dr), 2016

Post Graduate, KARABÜK VE CİVARI İÇİN GÜNEŞ ENERJİSİ ÖLÇÜMLERİ VE SPEKTRUM ANALİZLERİ İÇİN SİSTEM VE YÖNTEM TASARIMI, Karabük Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Y) (Tezli), 2011

## **Research Areas**

Electrical and Electronics Engineering, Power Electronics, Power Converters, Engineering and Technology

## **Academic Titles / Tasks**

Assistant Professor, Karabük Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2016 - Continues

Research Assistant, Karabük Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2009 - 2016

## **Professional Experience**

Deputy Head of Department, Karabük Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2016 - Continues

## **Courses**

Elektronik II, Under Graduate, 2016 - 2017

Elektronik I, Under Graduate, 2016 - 2017

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

- **Asymmetrical Multi-Step Direct Model Predictive Control of Nine-Switch Inverter for Dual-Output Mode Operation**  
GÜLBUDAK O., GÖKDAĞ M.

IEEE Access, vol.7, pp.164720-164733, 2019 (Journal Indexed in SCI Expanded)

- **Switched-capacitor converter for PV modules under partial shading and mismatch conditions**

GÖKDAĞ M., AKBABA M., GÜLBUDAK O.

SOLAR ENERGY, vol.170, pp.723-731, 2018 (Journal Indexed in SCI)

- **A novel PV sub-module-level power-balancing topology for maximum power point tracking under partial shading and mismatch conditions**

GÖKDAĞ M., AKBABA M.

FRONTIERS OF INFORMATION TECHNOLOGY & ELECTRONIC ENGINEERING, vol.17, pp.1388-1396, 2016 (Journal Indexed in SCI)

## Articles Published in Other Journals

- **Solar Panel Production for Charging Mobile Phones in Karabuk University Renewable Energy Engineering Research and Applications Center**

GÖKDAĞ M., GÜNEŞER M. T. , ERDİL E.

ACADEMIC PLATFORM-JOURNAL OF ENGINEERING AND SCIENCE, vol.1, pp.56-59, 2013 (Refereed Journals of Other Institutions)

## Refereed Congress / Symposium Publications in Proceedings

- **Model Predictive Control for Battery Charger Applications with Active Damping**

GÖKDAĞ M., GÜLBUDAK O.

2019 1st Global Power, Energy and Communication Conference (GPECOM), Nevsehir, Turkey, 12 - 15 Haziran 2019

- **Model Predictive Control of Two Separate Induction Machines using Dual-Output Indirect Matrix Converter**

GÜLBUDAK O., GÖKDAĞ M.

2019 1st Global Power, Energy and Communication Conference (GPECOM), Nevsehir, Turkey, 12 - 15 Haziran 2019

- **Modeling and Simulation of Complex Mechanical Systems Using Electrical Circuit Analog**

AKBABA M., DALCALI A., GÖKDAĞ M.

International Conference on Advanced Technologies, Computer Engineering and Science, Karabük, Turkey, 11 - 13 Mayıs 2018, pp.630-634

- **Model Predictive Control of AC-DC Matrix Converter with Unity Input Power Factor**

GÖKDAĞ M., GÜLBUDAK O.

12th IEEE International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), Doha, Qatar, 10 - 12 Nisan 2018

- **COMPARISON OF BOOST-TYPE CUK'S PWM-RESONANT CONVERTER WITH CONVENTIONAL BOOST CONVERTER**

GÖKDAĞ M.

2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Kizilcahamam, Turkey, 19 - 21 Ekim 2018, pp.584-587

- **Improving Supply Current Quality of Dual-Output Four-Leg Indirect Matrix Converter Using Model Predictive Control**

GÜLBUDAK O., GÖKDAĞ M.

12th IEEE International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), Doha, Qatar, 10 - 12 Nisan 2018

- **Predictive Dual-Induction Machine Control Using Nine-Switch Inverter For Multi-Drive Systems**

GÜLBUDAK O., GÖKDAĞ M.

12th IEEE International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), Doha, Qatar, 10 - 12 Nisan 2018

- **Modulation Technique for Three-Phase to Single Phase Matrix Converter**

GÖKDAĞ M., GÜLBUDAK O.

12th IEEE International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), Doha, Qatar, 10 - 12 Nisan 2018

- **Transient Analysis of DC-DC Power Supplies**

AKBABA M., GÖKDAĞ M.

INTERNATIONAL CONFERENCE ON MATHEMATICS AND ENGINEERING, 10 - 12 Mayıs 2017

- **A Novel Switched-Capacitor Topology for Sub-module Level Maximum Power Point Tracking under Partial Shading and Mismatch Conditions**

GÖKDAĞ M., AKBABA M.

6th International Conference on Modeling, Simulation, and Applied Optimization (ICMSAO), İstanbul, Turkey, 27 - 29 Mayıs 2015

- **An Active Battery Cell Balancing Topology without Using External Energy Storage Elements**

GÖKDAĞ M., AKBABA M.

6th International Conference on Modeling, Simulation, and Applied Optimization (ICMSAO), İstanbul, Turkey, 27 - 29 Mayıs 2015

- **Implementation of Differential Power Processing Concept to Switched-Capacitor Topology for PV Sub-module Level Power Balancing**

GÖKDAĞ M., AKBABA M.

9th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 26 - 28 Kasım 2015, pp.660-664

- **A Novel Sensorless Field Oriented Controller for Permanent Magnet Synchronous Motors**

AYGÜN H., GÖKDAĞ M., Aktas M., Cernat M.

IEEE 23rd International Symposium on Industrial Electronics (ISIE), İstanbul, Turkey, 1 - 04 Haziran 2014, pp.715-720

- **A Simple-Novel Indirect Algorithm for Tracking Maximum Power Under Rapid or Slow Irradiation and Temperature Changes**

GÖKDAĞ M., AKBABA M.

3rd THE INTERNATIONAL CONFERENCE on RENEWABLE ENERGY RESEARCH and APPLICATIONS (ICRERA), Wisconsin, United States Of America, 19 - 22 Ekim 2014, pp.680-683

## Supported Projects

GÖKDAĞ M., Project Supported by Higher Education Institutions, Model Predictive Control of AC-DC Matrix Converter with Unity Input Power Factor, 2018 - 2018

## Scientific Refereeing

Solar Energy, SCI Journal, May 2019

## Citations

Total Citations (WOS):18

h-index (WOS):2