

## **Res. Asst. MURAT MUSTAFA SAVRUN**

### **Personal Information**

**Email:** msavrun@cu.edu.tr

**Web:** <https://avesis.cu.edu.tr//msavrun>

**Address:** msavruncu.edu.tr

### **International Researcher IDs**

ORCID: 0000-0001-5847-5082

Yoksis Researcher ID: 56455

### **Education Information**

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Elektrik Elektronik Mühendisliği , Turkey 2013 - Continues

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Elektrik Elektronik Mühendisliği , Turkey 2010 - 2013

Undergraduate, Cukurova University, Mühendislik Mimarlık Fakültesi, Elektrik Elektronik Mühendisliği , Turkey 2005 - 2010

### **Foreign Languages**

English, C1 Advanced

### **Certificates, Courses and Trainings**

Education Management and Planning, Endüstriyel Elektrik Eğitimi, Çukurova Üniversitesi, 2010

Education Management and Planning, SCADA, Çukurova Teknik Elemanlar Derneği, 2008

Education Management and Planning, PLC (Programmable Logic Controller), Çukurova Teknik Elemanlar Derneği, 2008

Education Management and Planning, Liderlik, NLP, 2007

Education Management and Planning, Kişisel Gelişim, NLP, 2007

Education Management and Planning, İnsan Kaynakları, İnovasyon ve İletişim Teknikleri, NLP, 2007

Education Management and Planning, Dış Ticaret, NLP, 2007

Education Management and Planning, Satış Pazarlama, NLP, 2007

### **Research Areas**

Electrical and Electronics Engineering, Power Electronics, Power Quality, Engineering and Technology

### **Academic Titles / Tasks**

Research Assistant, Cukurova University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği Bölümü, 2014 - Continues

## PUBLISHED JOURNAL ARTICLES INDEXED BY SCI, SSCI, AND AHCI

- I. A new method to estimate the range of electric vehicles without using exact motor parameters  
CUMA M. U., SAVRUN M. M.  
INTERNATIONAL JOURNAL OF HEAVY VEHICLE SYSTEMS, vol.23, no.4, pp.333-349, 2016 (SCI-Expanded)

## Articles Published in Other Journals

- I. Design and Analysis of a High-Efficiency Resonant Converter for EV Battery Charger  
ERDOĞAN B., TAN A., SAVRUN M. M., CUMA M. U., TÜMAY M.  
Balkan Journal of Electrical and Computer Engineering, vol.11, 2023 (Peer-Reviewed Journal)
- II. Performance Benchmarking of Active-Front-End Rectifier Topologies Used in High-Power, High-Voltage Onboard EV Chargers  
CUMA M. U., SAVRUN M. M.  
Çukurova Üniversitesi Mühendislik Fakültesi Dergisi, vol.36, no.4, pp.1041-1050, 2021 (Peer-Reviewed Journal)
- III. Feeding Electricity Ring Grids with Minimum Interruption Using Fuzzy Logic Based Relay Coordination Scenarios Under Interruption Conditions  
CUMA M. U., SAVRUN M. M., Demiray İ.  
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.35, no.1, pp.149-158, 2020 (Peer-Reviewed Journal)
- IV. DSP controlled voltage disturbance generator  
SAVRUN M. M., TAN A., KOROGLU T., CUMA M. U., BAYINDIR K. Ç., TUMAY M.  
JOURNAL OF ELECTRICAL SYSTEMS, vol.14, no.1, pp.174-187, 2018 (ESCI)
- V. 1P3S HIGH FREQUENCY TRANSFORMER BASED DUAL-ACTIVE BRIDGE DC-DC CONVERTER  
SAVRUN M. M., KÖROĞLU T., TAN A., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.  
International Journal of Energy Applications and Technologies, vol.4, no.4, pp.174-181, 2017 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. COMPREHENSIVE RESEARCH AND COMPARISON ON REQUIREMENTS, MAIN PARTS, AND AVAILABLE PRODUCTS OF ONBOARD BATTERY CHARGER FOR ELECTRIC VEHICLES  
CUMA M. U., BONCUKÇU A., SAVRUN M. M.  
4. INTERNATIONAL ICONTECH SYMPOSIUM ON INNOVATIVE SURVEYS IN POSITIVE SCIENCES, Turkey, 18 July 2021
- II. A New Balancing Algorithm for Parallel Connected Battery Packs Used in Electric Vehicles  
CUMA M. U., ERDOĞAN B., Onur B., KÖROĞLU T., SAVRUN M. M., TÜMAY M.  
5th International Mediterranean Science and Engineering Congress (IMSEC 2020), Alanya, Antalya, Turkey, 21 - 23 October 2020
- III. A Fast Simulation Model For Large Scale Battery Packs Used In Heavy Electric Vehicles  
ERDOĞAN B., SAVRUN M. M., KÖROĞLU T., CUMA M. U., TÜMAY M.  
3rd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT'19), Ankara, Turkey, 11 - 13 October 2019
- IV. Minimization of Battery Pack Imbalance of Electric Vehicles Using Optimized Balancing Parameters  
SAVRUN M. M., KÖROĞLU T., ÜNAL E., ONUR B., CUMA M. U.  
Electric Vehicles International Conference (EV'2019), Bucharest, Romania, 3 - 04 October 2019
- V. Residential Grid Connected Solar PV System Equipped With Battery Storage Units  
SAVRUN M. M., KÖROĞLU T., YİRİK E., CUMA M. U.  
International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech'18), 22 - 23 November 2018, pp.2570-2577
- VI. 1P3S High Frequency Transformer Based Dual-Active Bridge DC-DC Converter

- SAVRUN M. M., KÖROĞLU T., TAN A., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.  
 IV. International Multidisciplinary Congress of Eurasia: Natural Sciences, Engineering and Architecture, IMCOFE'17,  
 Roma, Italy, 23 - 25 August 2017, pp.488
- VII. **A Study on Design Considerations of Isolated Bi-Directional Dual Active Bridge DC-DC Converter**  
 KÖROĞLU T., SAVRUN M. M., TAN A., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.  
 IV. International Multidisciplinary Congress of Eurasia: Natural Sciences, Engineering and Architecture, IMCOFE'17,  
 Roma, Italy, 23 - 25 August 2017, vol.3, pp.267-273
- VIII. **Interline hybrid unified power quality conditioner**  
 SAVRUN M. M., KÖROĞLU T., TAN A., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.  
 18th European Conference on Power Electronics and Applications, EPE 2016 ECCE Europe, Karlsruhe, Germany, 5  
 - 09 September 2016
- IX. **Interline Hybrid Unified Power Quality Conditioner**  
 SAVRUN M. M., KÖROĞLU T., TAN A., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.  
 18th European Conference on Power Electronics and Applications (EPE 2016), Karlsruhe, Germany, 5 - 09  
 September 2016
- X. **Interline Hybrid Unified Power Quality Conditioner**  
 SAVRUN M. M., KÖROĞLU T., TAN A., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.  
 18th European Conference on Power Electronics and Applications (EPE 2016), Karlsruhe, Germany, 5 - 09  
 September 2016
- XI. **Design and Implementation of Full Bridge Bidirectional Isolated DC-DC Converter for High Power  
 Applications**  
 KÖROĞLU T., SAVRUN M. M., TAN A., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.  
 18th European Conference on Power Electronics and Applications (EPE), Germany, 5 - 09 September 2016
- XII. **A New Method to Estimate the Range of Electric Vehicles Without Using Exact Motor Parameters**  
 SAVRUN M. M., CUMA M. U.  
 10th Conference on Sustainable Development of Energy, Water and Environment Systems, Dubrovnik, Croatia, 27  
 September - 04 October 2015, vol.2015-0726, pp.1-7
- XIII. **Current status and policy of wind energy in Turkey**  
 Yanıktepe B., SAVRUN M. M., KÖROĞLU T.  
 Nükleer ve Yenilenebilir Enerji Kaynakları Konferansı NURER 2012, İstanbul, Turkey, 21 - 23 May 2012, pp.1-7
- XIV. **Current Status and Policy of Wind Energy in TURKEY**  
 Yanıktepe B., SAVRUN M. M., KÖROĞLU T.  
 Nükleer ve Yenilenebilir Enerji Kaynakları Konferansı NURER 2012, İstanbul, Turkey, 20 - 23 May 2012, pp.1-7
- XV. **Rüzgar-Güneş Hibrid Güç Sistemi Osmaniye Korkut Ata Üniversitesi Uygulama Örneği**  
 Yanıktepe B., Özalp C., Savrun M. M., KÖROĞLU T., Cebeci Ç.  
 6. Uluslararası İleri Teknolojiler Sempozyumu (IATS'11), Elazığ, Turkey, 16 - 18 May 2011

## Supported Projects

CUMA M. U., KÖROĞLU T., SAVRUN M. M., Project Supported by Higher Education Institutions, DA-DA Dönüştürücülü  
 Melez Birleştirilmiş Güç Kalitesi Düzenleyicisinin Tasarımı ve Gerçekleştirilmesi, 2015 - 2016

## Metrics

Publication: 21

Citation (WoS): 4

Citation (Scopus): 7

H-Index (WoS): 1

H-Index (Scopus): 2

## **Non Academic Experience**

BMA Teknoloji

Solvaytech Mühendislik Sanayi ve Ticaret Limited Şirketi

Siemens Sanayi ve Ticaret A.Ş.