

## Prof. Dr. NECMİ ALTIN

### Kişisel Bilgiler

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### Eğitim Bilgileri

Doktora, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (Dr), Türkiye 2003 - 2009

Yüksek Lisans, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (Yl) (Tezli), Türkiye 2000 - 2003

Lisans, Gazi Üniversitesi, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, Türkiye 1996 - 2000

### Yaptığı Tezler

Doktora, Bulanık sinirsel denetimli şebeke etkileşimli evirici tasarımı ve gerçekleştirilmesi, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (Dr), 2009

Yüksek Lisans, 18 darbeli doğrultucu tasarımı, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (Yl) (Tezli), 2003

### Araştırma Alanları

Güç Elektroniği, Elektrik Motoru Sürücüler, Güç Aygıtları (trafolar, reaktörler, şalt teçhizatı v.b.), Güç Çevirgeçleri

### Akademik Unvanlar / Görevler

Prof. Dr., Gazi Üniversitesi, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2020 - Devam Ediyor

Doç. Dr., Gazi Üniversitesi, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2014 - 2020

Yrd. Doç. Dr., Gazi Üniversitesi, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2012 - 2014

Yrd. Doç. Dr., Gazi Üniversitesi, Teknik Eğitim Fakültesi, Elektrik Eğitimi, 2010 - 2012

### Akademik İdari Deneyim

Gazi Üniversitesi, Teknoloji Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2015 - Devam Ediyor

Gazi Üniversitesi, Bilişim Enstitüsü, 2012 - 2014

### Yönetilen Tezler

ALTIN N., Deniz Araçları İçin İki Eksenli Bir Görüş Hattı Stabilizasyon Sistemi Tasarımı, Yüksek Lisans, M.Sarp(Öğrenci),

2017

ALTIN N., Elektrikli araç için endüktif manyetik bağlı güç aktarım sistemi tasarımı, Yüksek Lisans, Ş.KUZEY(Öğrenci), 2017

ALTIN N., Deniz araçları için iki eksenli bir görüş hattı stabilizasyon sistemi tasarımı, Yüksek Lisans, M.SARP(Öğrenci), 2017

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Global fast terminal sliding mode control with fixed switching frequency for voltage control of DC-DC buck converters**  
Balta G., GÜLER N., ALTIN N.  
ISA Transactions, cilt.143, ss.582-595, 2023 (SCI-Expanded)
- II. **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, cilt.228, 2023 (SCI-Expanded)
- III. **Multi-Agent-Based Controller for Microgrids: An Overview and Case Study**  
Altın N., Eyimaya S. E., Nasiri A.  
ENERGIES, cilt.16, sa.5, 2023 (SCI-Expanded)
- IV. **Interval Type-2 Fuzzy-Logic-Based Constant Switching Frequency Control of a Sliding-Mode-Controlled DC-DC Boost Converter**  
Balta G., ALTIN N., Nasiri A.  
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- V. **Reliability Analysis of Microgrids: Evaluation of Centralized and Decentralized Control Approaches**  
Garip S., Bilgen M., ALTIN N., ÖZDEMİR Ş., SEFA İ.  
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- VI. **Modified Fast Terminal Sliding Mode Control for DC-DC Buck Power Converter with Switching Frequency Regulation**  
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- VII. **Overall Efficiency Improvement of a Dual Active Bridge Converter Based on Triple Phase-Shift Control**  
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- VIII. **A Novel Topology for Solar PV Inverter Based on an LLC Resonant Converter With Optimal Frequency and Phase-Shift Control**  
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- IX. **Super twisting sliding mode control of three-phase grid-tied neutral point clamped inverters**  
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Wei Y., Luo Q., Du X., ALTIN N., Alonso J. M., Mantooth H. A.  
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- XI. **Design and Implementation of a LLC Resonant Solid-State Transformer**  
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- XII. **A Dual Half-Bridge LLC Resonant Converter With Magnetic Control for Battery Charger Application**  
Wei Y., Luo Q., Du X., ALTIN N., Nasiri A., Marcos Alonso J.  
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- XIII. **Design and Development of a High-Frequency Multiport Solid-State Transformer With Decoupled Control Scheme**  
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- XIV. **Comparison among different analysis methodologies for LLC resonant converter**  
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- XV. **An Enhanced Lyapunov-Function Based Control Scheme for Three-Phase Grid-Tied VSI With LCL Filter**  
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- XVI. **Sliding-Mode Control in Natural Frame With Reduced Number of Sensors for Three-Phase Grid-Tied LCL-Interfaced Inverters**  
ALTIN N., ÖZDEMİR Ş., Komurcugil H., SEFA İ.  
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- XVII. **Neural Modeling of Fuzzy Controllers for Maximum Power Point Tracking in Photovoltaic Energy Systems**  
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- XVIII. **A Combined Energy Management Algorithm for Wind Turbine/Battery Hybrid System**  
ALTIN N., EYİMAYA S. E.  
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- XIX. **The Type-2 Fuzzy Logic Controller-Based Maximum Power Point Tracking Algorithm and the Quadratic Boost Converter for Pv System**  
ALTIN N.  
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- XX. **Comparative study on Lyapunov-function-based control schemes for single-phase grid-connected voltage-source inverter with LCL filter**  
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- XXI. **Design and analysis of a 35 kVA medium frequency power transformer with the nanocrystalline core material**  
Balci S., SEFA İ., ALTIN N.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.42, sa.28, ss.17895-17909, 2017 (SCI-Expanded)
- XXII. **Preface to the special issue on "The 4th European Conference on Renewable Energy Systems (ECRES 2016), 28-31 August 2016, Istanbul, Turkey"**  
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- XXIII. **Design and performance analysis of the three-level isolated DC-DC converter with the nanocrystalline core transformer**  
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- XXIV. **Fuzzy logic based MPPT controller for high conversion ratio quadratic boost converter**  
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- XXV. **Design and analysis of a wireless power transfer system with alignment errors for electrical vehicle applications**  
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- XXVI. **Maximum Power Point Tracking Algorithms for Partial Shaded PV Systems**  
SEFA İ., ALTIN N., ÖZDEMİR Ş.

- ENERGY HARVESTING AND ENERGY EFFICIENCY: TECHNOLOGY, METHODS, AND APPLICATIONS, cilt.37, ss.261-292, 2017 (SCI-Expanded)
- XXVII. **Thermal Behavior of a Medium-Frequency Ferrite-Core Power Transformer**  
Balci S., SEFA İ., ALTIN N.  
JOURNAL OF ELECTRONIC MATERIALS, cilt.45, sa.8, ss.3978-3988, 2016 (SCI-Expanded)
- XXVIII. **Exploration of optimal design and performance of a hybrid wind-solar energy system**  
Bouzelata Y., ALTIN N., Chenni R., KURT E.  
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- XXIX. **An Investigation of Ferrite and Nanocrystalline Core Materials for Medium-Frequency Power Transformers**  
Balci S., SEFA İ., ALTIN N.  
JOURNAL OF ELECTRONIC MATERIALS, cilt.45, sa.8, ss.3811-3821, 2016 (SCI-Expanded)
- XXX. **Lyapunov-Function and Proportional-Resonant-Based Control Strategy for Single-Phase Grid-Connected VSI With LCL Filter**  
Komurcugil H., ALTIN N., ÖZDEMİR Ş., SEFA İ.  
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- XXXI. **Sliding-Mode Control for Single-Phase Grid-Connected LCL-Filtered VSI With Double-Band Hysteresis Scheme**  
Komurcugil H., ÖZDEMİR Ş., SEFA İ., ALTIN N., Kukrer O.  
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- XXXII. **Design and simulation of a unified power quality conditioner fed by solar energy**  
Bouzelata Y., KURT E., Chenni R., ALTIN N.  
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- XXXIII. **An Extended Lyapunov-Function-Based Control Strategy for Single-Phase UPS Inverters**  
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- XXXIV. **Design and simulation of a solar supplied multifunctional active power filter and a comparative study on the current-detection algorithms**  
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- XXXV. **Fuzzy PI controlled inverter for grid interactive renewable energy systems**  
Sefa İ., Altin N., ÖZDEMİR Ş., KAPLAN O.  
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- XXXVI. **Single stage three level grid interactive MPPT inverter for PV systems**  
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- XXXVII. **PV supplied single stage mppt inverter for induction motor actuated ventilation systems**  
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- XXXVIII. **Three-phase three-level grid interactive inverter with fuzzy logic based maximum power point tracking controller**  
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- XXXIX. **Interval Type-2 Fuzzy Logic Controller Based Maximum Power Point Tracking in Photovoltaic Systems**  
Altin N.  
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- XL. **dSPACE based adaptive neuro-fuzzy controller of grid interactive inverter**  
ALTIN N., SEFA İ.  
ENERGY CONVERSION AND MANAGEMENT, cilt.56, ss.130-139, 2012 (SCI-Expanded)
- XLI. **30 PULSE RECTIFIER DESIGN FOR GRID INTERFACES OF THE VARIABLE SPEED DRIVES**

SEFA İ., ALTIN N.

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, cilt.24, sa.4, ss.675-685, 2009 (SCI-Expanded)

**XLII. A novel approach to determine the interphase transformer inductance of 18 pulse rectifiers**

SEFA İ., ALTIN N.

ENERGY CONVERSION AND MANAGEMENT, cilt.50, sa.10, ss.2495-2503, 2009 (SCI-Expanded)

**XLIII. GRID INTERACTIVE PHOTOVOLTAIC INVERTERS- A REVIEW**

SEFA İ., ALTIN N.

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## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **Lityum Bataryalarda Şarj Durumu (SoC) ve Sağlık Durumu (SoH) Kestirimi**  
Sevim G., Altın N.  
Karamanoğlu Mehmetbey Üniversitesi Mühendislik ve Doğa Bilimleri Dergisi, cilt.5, sa.1, ss.33-51, 2023 (Hakemli Dergi)
- II. **An Expanded Lyapunov-Function Based Control Strategy for Cascaded H-Bridge Multilevel Active Front-End Converters**  
Jean-Pierre G., ALTIN N., Shafei A. E., Nasiri A.  
IEEE Open Journal of Power Electronics, cilt.4, ss.117-127, 2023 (Scopus)
- III. **Modelling and fuzzy logic based control scheme for a series hybrid electric vehicle**  
UYSAL L. K., ALTIN N.  
Journal of Energy Systems, cilt.7, sa.1, ss.106-120, 2023 (Scopus)
- IV. **Power System Reliability Assessment— A Review on Analysis and Evaluation Methods**  
Garip S., Bilgen M., Özdemir Ş., Altın N., Sefa İ.  
Journal of Energy Systems, cilt.6, sa.3, ss.401-419, 2022 (Scopus)
- V. **Development of a Medium Voltage, High Power, High Frequency Four-Port Solid State Transformer**  
El Shafei A., Özdemir Ş., Altın N., Jean-Pierre G., Nasiri A.  
CES Transactions on Electrical Machines and Systems, cilt.6, sa.1, ss.95-104, 2022 (Scopus)
- VI. **Review of Standards on Insulation Coordination for Medium Voltage Power Converters**  
ÖZDEMİR Ş., ALTIN N., Nasiri A., Cuzner R.  
IEEE Open Journal of Power Electronics, cilt.2, ss.236-249, 2021 (ESCI)
- VII. **A Multiport Bidirectional LLC Resonant Converter for Grid-Tied Photovoltaic-Battery Hybrid System**  
Jean-Pierre G., El Shafei A., ALTIN N., Nasiri A.  
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- VIII. **A Hybrid Overload Current Limiting and Short Circuit Protection Scheme for Voltage Mode Inverters**  
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- IX. **Review on Vehicle-to-Grid Systems: The Most Recent Trends and Smart Grid Interaction Technologies**  
Sarp M., ALTIN N.  
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- X. **Design of the AC Line Reactors With Finite Element Method**  
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- XI. **32 Bit ARM İşlemci ile Hız Denetimi Yapılan Bir DA Motorun Android Arayüzü Olan Bir Cihaz Üzerinden Uzaktan Kontrolü ve İzlenmesi**  
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- XII. **Sonlu Elemanlar Metodu ile AA Hat Reaktörlerinin Tasarımı**  
SEFA İ., selami b., ALTIN N.  
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- XIII. **dSAPCE Based Fuzzy Logic Controlled Boost Converter**  
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## Kitap & Kitap Bölümleri

- I. **Elektrikli Taşıtlar**  
AKTAŞ M., ŞAHİN F., BAKAN A. F., SOLMAZ H., TOPGÜL T., DÜZGÜN M., ŞEN O. T., ALTIN N., GÜNDOĞDU T., ÇINAR C., et al.  
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- II. **Maximum Power Point Tracking Algorithms for Partial Shaded PV Systems**  
SEFA İ., ALTIN N., ÖZDEMİR Ş.  
Energy Harvesting and Energy Efficiency, Erol Kurt, Editör, Springer International Publishing AG, ss.261-292, 2017

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **A Review on Multi-Agent Systems and JADE Applications in Microgrids**  
Eyimaya S. E., ALTIN N., Nasiri A.  
12th International Conference on Smart Grid (ICSmartGrid), Setúbal, Portekiz, 27 - 29 Mayıs 2024, ss.623-628
- 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), Romanya, 29 Haziran 2023
- III. **Development of a High Frequency/Power Three-Port SST Suitable for Solar PV/Battery Interface**  
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38th Annual IEEE Applied Power Electronics Conference and Exposition, APEC 2023, Florida, Amerika Birleşik Devletleri, 19 - 23 Mart 2023, cilt.2023-March, ss.2313-2320
- IV. **Solar Water Pumping System With Modified CSS-INC MPPT Algorithm**  
Esmeal A. A., Oncu S., ALTIN N.  
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- V. **Fixed-Frequency Sliding Mode Control in Synchronous Reference Frame for Three-Phase LCL Filtered Active Front-End Converter**  
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- VI. **Three-Phase Grid-Connected Five-Level Packed U-Cell (PUC-5) Inverter Design**  
Yuksel A., ALTIN N.  
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- VII. **Sliding Mode Control in Natural Reference Frame for Three-Phase LCL Filtered Active Front-End Converter**  
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- VIII. **Second-Order Sliding Mode Control of Three-Phase Three-Level Grid-Connected Neutral Point Clamped Inverters**  
ALTIN N., ÖZDEMİR Ş., SEFA İ., KÖMÜRCÜĞİL H.  
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- IX. **An MPPT Controlled Three Phase PV Supplied Water Pumping System**  
Esmeail A. A., Oncu S., ALTIN N.  
13th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2021, Pitesti, Romanya, 1 - 03 Temmuz 2021
- X. **Design of an Energy Management System with Power Fluctuation Mitigation Capability for PV/Wind Hybrid Renewable Energy Sources**  
Eyimaya S. E., Altın N., Bal G.  
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- XI. **An Optimal Design of a Hybrid Liquid/Air Cooling System for High Power, Medium Frequency, and Medium Voltage Solid-State Transformer**  
Beheshtaein S., Alshafei A., Jean-Pierre G., ALTIN N., Khayamy M., Cuzner R., Nasiri A.  
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- XII. **Sliding Mode Control Scheme of a Cascaded H-Bridge Multilevel Active Front End Rectifier**  
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- XIII. **A Control Scheme for a DC Extreme Fast Charger with RMS Current Minimization**  
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- XIV. **A Review of Microgrid Control Strategies**  
Altın N., Eyimaya S. E.  
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- XV. **Control and Loss Analysis of a Solid State Transformer Based DC Extreme Fast Charger**  
Jean-Pierre G., Beheshtaein S., ALTIN N., Nasiri A.  
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- XVI. **Design and Implementation of a Medium Voltage, High Power, High Frequency Four-Port Transformer**  
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- XVII. **A Complete Design of a High Frequency Medium Voltage Multi-Port Transformer**  
El Shafei A., ÖZDEMİR Ş., ALTIN N., Jean Pierre G., Nasiri A.  
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- XVIII. **A Hybrid Overload Current Limiting and Short Circuit Protection Scheme: A Case Study on UPS Inverter**  
Köseoğlu C., ALTIN N., Zengin F., Kelebek H., SEFA İ.  
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- XIX. **A High Power High Frequency Transformer Design for Solid State Transformer Applications**  
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- XX. **A Multiport Bidirectional LLC Resonant Converter for Grid-Tied Photovoltaic-Battery Hybrid System**  
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- XXI. **Mitigating Communication Delay Impact on Microgrid Stability Using a Compensator Based on Smith Predictor**  
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## **Burslar**

A RESEARCH ON BATTERY ENERGY STORAGE SYSTEMS AND THEIR GRID INTERFACES AT UNIVERSITY OF WISCONSIN-MILWAUKEE, TÜBİTAK, 2017 - 2019

## **Akademi Dışı Deneyim**

MİLLİ EĞİTİM BAKANLIĞI

Unimak Makina Sanayi Ltd. Őti