

## **Prof. NECMİ ALTIN**

### **Personal Information**

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### **International Researcher IDs**

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### **Education Information**

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (Dr), Turkey 2003 - 2009

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (YI) (Tezli), Turkey 2000 - 2003

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, Turkey 1996 - 2000

### **Dissertations**

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

Postgraduate, 18 darbeli doğrultucu tasarımı, Gazi University, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (YI) (Tezli), 2003

### **Research Areas**

Power Electronics, Electric Motor Drivers, Power Apparatus (transformers,reactors,switchgear,etc.), Power Converters

### **Academic Titles / Tasks**

Professor, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2020 - Continues

Associate Professor, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2014 - 2020

Assistant Professor, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2012 - 2014

Assistant Professor, Gazi University, Teknik Eğitim Fakültesi, Elektrik Eğitimi, 2010 - 2012

### **Academic and Administrative Experience**

Gazi University, Teknoloji Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2015 - Continues

Gazi University, Bilişim Enstitüsü, 2012 - 2014

### **Advising Theses**

ALTIN N., Design Of A Two Axis Line Of Sight Stabilization System For Vessels, Postgraduate, M.Sarp(Student), 2017

ALTIN N., Design Of Inductive Magnetic Coupled Power Transmission System For Electric Vehicle, Postgraduate, Ş.KUZEY(Student), 2017

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

### **Published journal articles indexed by SCI, SSCI, and AHCI**

- 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, vol.143, pp.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, vol.228, 2023 (SCI-Expanded)
- III. **Multi-Agent-Based Controller for Microgrids: An Overview and Case Study**  
Altın N., Eyimaya S. E., Nasiri A.  
ENERGIES, vol.16, no.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.  
APPLIED SCIENCES-BASEL, vol.13, no.5, 2023 (SCI-Expanded)
- V. **Reliability Analysis of Microgrids: Evaluation of Centralized and Decentralized Control Approaches**  
Garip S., Bilgen M., ALTIN N., ÖZDEMİR Ş., SEFA İ.  
Electric Power Components and Systems, vol.51, no.19, pp.2319-2338, 2023 (SCI-Expanded)
- VI. **Modified Fast Terminal Sliding Mode Control for DC-DC Buck Power Converter with Switching Frequency Regulation**  
Balta G., GÜLER N., ALTIN N.  
INTERNATIONAL TRANSACTIONS ON ELECTRICAL ENERGY SYSTEMS, vol.2022, 2022 (SCI-Expanded)
- VII. **Overall Efficiency Improvement of a Dual Active Bridge Converter Based on Triple Phase-Shift Control**  
Jean-Pierre G., ALTIN N., El Shafei A., Nasiri A.  
ENERGIES, vol.15, no.19, 2022 (SCI-Expanded)
- VIII. **A Novel Topology for Solar PV Inverter Based on an LLC Resonant Converter With Optimal Frequency and Phase-Shift Control**  
ALTIN N., ÖZDEMİR Ş., Khayamy M., Nasiri A.  
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, vol.58, no.4, pp.5042-5054, 2022 (SCI-Expanded)
- IX. **Super twisting sliding mode control of three-phase grid-tied neutral point clamped inverters**  
ÖZDEMİR Ş., ALTIN N., SEFA İ., Zhang Z., Komurcugil H.  
ISA Transactions, vol.125, pp.547-559, 2022 (SCI-Expanded)
- X. **Analysis and Design of the LLC Resonant Converter With Variable Inductor Control Based on Time-Domain Analysis**  
Wei Y., Luo Q., Du X., ALTIN N., Alonso J. M., Mantooth H. A.  
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol.67, no.7, pp.5432-5443, 2020 (SCI-Expanded)
- XI. **Design and Implementation of a LLC Resonant Solid-State Transformer**  
Rashidi M., ALTIN N., Ozdemir Ş., Bani-Ahmed A., Sabbah M., Balali F., Nasiri A.  
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, vol.56, no.4, pp.3855-3864, 2020 (SCI-Expanded)
- 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.  
IEEE TRANSACTIONS ON POWER ELECTRONICS, vol.35, no.2, pp.2196-2207, 2020 (SCI-Expanded)

- XIII. **Design and Development of a High-Frequency Multiport Solid-State Transformer With Decoupled Control Scheme**  
Rashidi M., ALTIN N., ÖZDEMİR Ş., Bani-Ahmed A., Nasiri A.  
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, vol.55, no.6, pp.7515-7526, 2019 (SCI-Expanded)
- XIV. **Comparison among different analysis methodologies for LLC resonant converter**  
Wei Y., Luo Q., Chen S., Sun P., ALTIN N.  
IET POWER ELECTRONICS, vol.12, no.9, pp.2236-2244, 2019 (SCI-Expanded)
- XV. **An Enhanced Lyapunov-Function Based Control Scheme for Three-Phase Grid-Tied VSI With LCL Filter**  
SEFA İ., ÖZDEMİR Ş., Komurcugil H., ALTIN N.  
IEEE TRANSACTIONS ON SUSTAINABLE ENERGY, vol.10, no.2, pp.504-513, 2019 (SCI-Expanded)
- 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.  
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol.66, no.4, pp.2903-2913, 2019 (SCI-Expanded)
- XVII. **Neural Modeling of Fuzzy Controllers for Maximum Power Point Tracking in Photovoltaic Energy Systems**  
Manuel Lopez-Guede J., Ramos-Hernanz J., ALTIN N., ÖZDEMİR Ş., KURT E., Azkune G.  
JOURNAL OF ELECTRONIC MATERIALS, vol.47, no.8, pp.4519-4532, 2018 (SCI-Expanded)
- XVIII. **A Combined Energy Management Algorithm for Wind Turbine/Battery Hybrid System**  
ALTIN N., EYİMAYA S. E.  
JOURNAL OF ELECTRONIC MATERIALS, vol.47, no.8, pp.4430-4436, 2018 (SCI-Expanded)
- XIX. **The Type-2 Fuzzy Logic Controller-Based Maximum Power Point Tracking Algorithm and the Quadratic Boost Converter for Pv System**  
ALTIN N.  
JOURNAL OF ELECTRONIC MATERIALS, vol.47, no.8, pp.4475-4485, 2018 (SCI-Expanded)
- XX. **Comparative study on Lyapunov-function-based control schemes for single-phase grid-connected voltage-source inverter with LCL filter**  
SEFA İ., ÖZDEMİR Ş., Komurcugil H., ALTIN N.  
IET RENEWABLE POWER GENERATION, vol.11, no.11, pp.1473-1482, 2017 (SCI-Expanded)
- 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, vol.42, no.28, pp.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"**  
KURT E., Bizon N., ALTIN N., AKIN B.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.28, pp.17559-17560, 2017 (SCI-Expanded)
- XXIII. **Design and performance analysis of the three-level isolated DC-DC converter with the nanocrystalline core transformer**  
ÖZDEMİR Ş., Balci S., ALTIN N., SEFA İ.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.28, pp.17801-17812, 2017 (SCI-Expanded)
- XXIV. **Fuzzy logic based MPPT controller for high conversion ratio quadratic boost converter**  
ÖZDEMİR Ş., ALTIN N., Sefa İ.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.28, pp.17748-17759, 2017 (SCI-Expanded)
- XXV. **Design and analysis of a wireless power transfer system with alignment errors for electrical vehicle applications**  
KUZEY Ş., Balci S., ALTIN N.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.28, pp.17928-17939, 2017 (SCI-Expanded)
- 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, vol.37, pp.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, vol.45, no.8, pp.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.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.29, pp.12497-12511, 2016 (SCI-Expanded)
- XXIX. **An Investigation of Ferrite and Nanocrystalline Core Materials for Medium-Frequency Power Transformers**  
Balci S., SEFA İ., ALTIN N.  
JOURNAL OF ELECTRONIC MATERIALS, vol.45, no.8, pp.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.  
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol.63, no.5, pp.2838-2849, 2016 (SCI-Expanded)
- 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.  
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol.63, no.2, pp.864-873, 2016 (SCI-Expanded)
- XXXII. **Design and simulation of a unified power quality conditioner fed by solar energy**  
Bouzelata Y., KURT E., Chenni R., ALTIN N.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.44, pp.15267-15277, 2015 (SCI-Expanded)
- XXXIII. **An Extended Lyapunov-Function-Based Control Strategy for Single-Phase UPS Inverters**  
Komurcugil H., ALTIN N., ÖZDEMİR Ş., SEFA İ.  
IEEE TRANSACTIONS ON POWER ELECTRONICS, vol.30, no.7, pp.3976-3983, 2015 (SCI-Expanded)
- XXXIV. **Design and simulation of a solar supplied multifunctional active power filter and a comparative study on the current-detection algorithms**  
Bouzelata Y., KURT E., ALTIN N., Chenni R.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.43, pp.1114-1126, 2015 (SCI-Expanded)
- XXXV. **Fuzzy PI controlled inverter for grid interactive renewable energy systems**  
Sefa İ., Altin N., ÖZDEMİR Ş., KAPLAN O.  
IET Renewable Power Generation, vol.9, no.7, pp.729-738, 2015 (SCI-Expanded)
- XXXVI. **Single stage three level grid interactive MPPT inverter for PV systems**  
ÖZDEMİR Ş., ALTIN N., SEFA İ.  
ENERGY CONVERSION AND MANAGEMENT, vol.80, pp.561-572, 2014 (SCI-Expanded)
- XXXVII. **PV supplied single stage mppt inverter for induction motor actuated ventilation systems**  
ÖZDEMİR Ş., Altin N., Sefa İ., Bal G.  
Elektronika ir Elektrotehnika, vol.20, no.5, pp.116-122, 2014 (SCI-Expanded)
- XXXVIII. **Three-phase three-level grid interactive inverter with fuzzy logic based maximum power point tracking controller**  
ALTIN N., ÖZDEMİR Ş.  
ENERGY CONVERSION AND MANAGEMENT, vol.69, pp.17-26, 2013 (SCI-Expanded)
- XXXIX. **Interval Type-2 Fuzzy Logic Controller Based Maximum Power Point Tracking in Photovoltaic Systems**  
Altin N.  
ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, vol.13, no.3, pp.65-70, 2013 (SCI-Expanded)
- XL. **dSPACE based adaptive neuro-fuzzy controller of grid interactive inverter**  
ALTIN N., SEFA İ.  
ENERGY CONVERSION AND MANAGEMENT, vol.56, pp.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, vol.24, no.4, pp.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, vol.50, no.10, pp.2495-2503, 2009 (SCI-Expanded)

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

SEFA İ., ALTIN N.

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.24, no.3, pp.409-424, 2009 (SCI-Expanded)

## Articles Published in Other Journals

**I. Lityum Bataryalarda Şarj Durumu (SoC) ve Sağlık Durumu (SoH) Kestirimi**

Sevim G., Altın N.

Karamanoğlu Mehmetbey Üniversitesi Mühendislik ve Doğa Bilimleri Dergisi, vol.5, no.1, pp.33-51, 2023 (Peer-Reviewed Journal)

**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, vol.4, pp.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, vol.7, no.1, pp.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, vol.6, no.3, pp.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, vol.6, no.1, pp.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, vol.2, pp.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.

INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, vol.10, no.2, pp.862-870, 2020 (ESCI)

**VIII. A Hybrid Overload Current Limiting and Short Circuit Protection Scheme for Voltage Mode Inverters**

Koseoglu C., ALTIN N., Zengin F., Kelebek H., SEFA İ.

INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, vol.10, no.1, pp.407-415, 2020 (ESCI)

**IX. Review on Vehicle-to-Grid Systems: The Most Recent Trends and Smart Grid Interaction Technologies**

Sarp M., ALTIN N.

GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.33, no.2, pp.394-411, 2020 (ESCI)

**X. Design of the AC Line Reactors With Finite Element Method**

SEFA İ., Balci S., ALTIN N.

JOURNAL OF POLYTECHNIC-POLITEKNİK DERGİSİ, vol.18, no.4, pp.257-267, 2015 (ESCI)

**XI. 32 Bit ARM İşlemci ile Hız Denetimi Yapılan Bir DA Motorun Android Arayüzü Olan Bir Cihaz Üzerinden Uzaktan Kontrolü ve İzlenmesi**

ALTIN N., SEFA İ., ÖZDEMİR Ş., zeki z.

Bilişim Teknolojileri Dergisi, vol.8, no.3, 2015 (Peer-Reviewed Journal)

- XII. **Sonlu Elemanlar Metodu ile AA Hat Reaktörlerinin Tasarımı**  
SEFA İ., selami b., ALTIN N.  
Gazi Üniversitesi Politeknik Dergisi, vol.18, no.4, pp.257-267, 2015 (Peer-Reviewed Journal)
- XIII. **dSAPCE Based Fuzzy Logic Controlled Boost Converter**  
SEFA İ., ALTIN N., ÖZDEMİR Ş.  
Electronics and Computer Science, Scientific Bulletin, vol.2, no.8, pp.36-41, 2009 (Peer-Reviewed Journal)

## Books & Book Chapters

- 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.  
in: Modern Elektrikli, Hibrit Elektrikli ve Yakıt Hücreli Taşıtlar, Mustafa AKTAŞ, Editor, Akademisyen Kitabevi, Ankara, pp.95-112, 2021
- II. **Maximum Power Point Tracking Algorithms for Partial Shaded PV Systems**  
SEFA İ., ALTIN N., ÖZDEMİR Ş.  
in: Energy Harvesting and Energy Efficiency, Erol Kurt, Editor, Springer International Publishing AG, pp.261-292, 2017

## Refereed Congress / Symposium Publications in Proceedings

- 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, Portugal, 27 - 29 May 2024, pp.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), Romania, 29 June 2023
- III. **Development of a High Frequency/Power Three-Port SST Suitable for Solar PV/Battery Interface**  
ÖZDEMİR Ş., ALTIN N., El Shafei A., Nasiri A.  
38th Annual IEEE Applied Power Electronics Conference and Exposition, APEC 2023, Florida, United States Of America, 19 - 23 March 2023, vol.2023-March, pp.2313-2320
- IV. **Solar Water Pumping System With Modified CSS-INC MPPT Algorithm**  
Esmeail A. A., Oncu S., ALTIN N.  
15th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2023, Bucharest, Romania, 29 - 30 June 2023
- V. **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
- VI. **Three-Phase Grid-Connected Five-Level Packed U-Cell (PUC-5) Inverter Design**  
Yuksel A., ALTIN N.  
11th IEEE International Conference on Renewable Energy Research and Applications, ICRERA 2022, İstanbul, Turkey, 18 - 21 September 2022, pp.490-495
- VII. **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

- 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.  
International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Pitesti, Romania, 01 July 2021
- 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, Romania, 1 - 03 July 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.  
13th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2021, Pitesti, Romania, 1 - 03 July 2021
- 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.  
12th IEEE International Symposium on Power Electronics for Distributed Generation Systems, PEDG 2021, Virtual, Online, 28 June - 01 July 2021
- XII. **Sliding Mode Control Scheme of a Cascaded H-Bridge Multilevel Active Front End Rectifier**  
Jean-Pierre G., ALTIN N., Nasiri A.  
12th IEEE International Symposium on Power Electronics for Distributed Generation Systems, PEDG 2021, Virtual, Online, 28 June - 01 July 2021
- XIII. **A Control Scheme for a DC Extreme Fast Charger with RMS Current Minimization**  
Jean-Pierre G., Beheshtaein S., ALTIN N., Nasiri A.  
12th IEEE International Symposium on Power Electronics for Distributed Generation Systems, PEDG 2021, Virtual, Online, 28 June - 01 July 2021
- XIV. **A Review of Microgrid Control Strategies**  
Altın N., Eyimaya S. E.  
10th IEEE International Conference on Renewable Energy Research and Applications, ICRERA 2021, İstanbul, Turkey, 26 - 29 September 2021, pp.412-417
- XV. **Control and Loss Analysis of a Solid State Transformer Based DC Extreme Fast Charger**  
Jean-Pierre G., Beheshtaein S., ALTIN N., Nasiri A.  
IEEE Transportation Electrification Conference and Expo (ITEC), ELECTRIC NETWORK, 21 - 25 June 2021, pp.9-14
- XVI. **Design and Implementation of a Medium Voltage, High Power, High Frequency Four-Port Transformer**  
El Shafei A., Özdemir Ş., Altın N., Jean Pierre G., Nasiri A.  
2020 IEEE Applied Power Electronics Conference and Exposition (APEC), California, United States Of America, 15 - 19 March 2020, pp.2352-2357
- 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.  
8TH INTERNATIONAL CONFERENCE ON RENEWABLE ENERGY RESEARCH AND APPLICATIONS (ICRERA), Brasov, Romania, 3 - 06 November 2019, pp.7-12
- 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.  
ICRERA 2019 8TH INTERNATIONAL CONFERENCE ON RENEWABLE ENERGY RESEARCH AND APPLICATIONS, Brasov, Romania, 3 - 06 November 2019, pp.1-6
- XIX. **A High Power High Frequency Transformer Design for Solid State Transformer Applications**  
El Shafei A., ÖZDEMİR Ş., ALTIN N., Jean Pierre G., Nasiri A.

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- XX. **A Multiport Bidirectional LLC Resonant Converter for Grid-Tied Photovoltaic-Battery Hybrid System**  
Jean Pierre G., El Shafei A., ALTIN N., Nasiri A.  
ICRERA 2019 8TH INTERNATIONAL CONFERENCE ON RENEWABLE ENERGY RESEARCH AND APPLICATIONS, Brasov, Romania, 3 - 06 November 2019, pp.1-6
- XXI. **Mitigating Communication Delay Impact on Microgrid Stability Using a Compensator Based on Smith Predictor**  
Akbari Haghighat H., ALTIN N., Nasiri A.  
2019 IEEE Energy Conversion Congress and Exposition (ECCE), Baltimore, MD, USA, 29 September - 03 October 2019
- XXII. **A Three-Port LLC Resonant Converter for Photovoltaic-Battery Hybrid System**  
JeanPierre G., ALTIN N., Nasiri A.  
2019 IEEE Transportation Electrification Conference and Expo (ITEC), Detroit, MI, USA, 19 - 21 June 2019
- XXIII. **A Modified Lyapunov-Function Based Control Scheme for Three-Phase Three-Level Two-Leg Grid-Tied NPC Inverter**  
ALTIN N., SEFA İ., Komurcugil H., ÖZDEMİR Ş.  
7th International Istanbul Smart Grids and Cities Congress and Fair (ICSG), İstanbul, Turkey, 25 - 26 April 2019, pp.218-222
- XXIV. **A Decoupled Control Scheme of Four-Port Solid State Transformer**  
Ozdemir Ş., ALTIN N., El Shafei A., Rashidi M., Nasiri A.  
11th Annual IEEE Energy Conversion Congress and Exposition (ECCE), Maryland, United States Of America, 29 September - 03 October 2019, pp.5009-5015
- XXV. **A Modified Lyapunov-Function Based Control Scheme for Two-Leg Three-Level T-Type Grid-Tied Inverter with LCL Filter**  
ALTIN N., ÖZDEMİR Ş., SEFA İ., Komurcugil H.  
4th International Conference on Power Electronics and their Applications (ICPEA), Elazığ, Turkey, 25 - 27 September 2019
- XXVI. **A Novel Solar PV Inverter Topology Based on an LLC Resonant Converter**  
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- XLV. **ANALYSIS OF THE COMBINED RESPONSE OF FLC AND BOOST CONVERTER FOR MPPT IN PV SYSTEMS**  
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- LVIII. Energy Storage Systems and Power System Stability**  
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## Supported Projects

ALTIN N., Project Supported by Higher Education Institutions, Bilgisayar Denetimli 2 Eksenli Güneş Takip sistemi, 2011 - 2013

ALTIN N., Project Supported by Higher Education Institutions, 30 Darbeli Doğrultucu Tasarımı, 2010 - 2012

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## **Scholarships**

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

## **Non Academic Experience**

MİLLÎ EĞİTİM BAKANLIĞI

Unimak Makina Sanayi Ltd. şti