

Assoc. Prof. EROL CAN

Personal Information

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International Researcher IDs

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Yoksis Researcher ID: 16483

Education Information

Doctorate, Gazi University, Fenbilimleri Enstitüsü, Elektrik Bölümü, Turkey 2011 - 2016

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Elektrik Elektronik Bölümü, Turkey 2008 - 2010

Undergraduate, Marmara University, Fakülte, Elektrik Eğitimi, Turkey 1998 - 2001

Foreign Languages

English, C1 Advanced

Research Areas

Electrical and Electronics Engineering, Aeronautical and Space Engineering, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Erzincan Binali Yildirim University, Ali Cavit Çelebioğlu Sivil Havacılık Yüksekokulu, Havacılık Elektrik ve Elektronik Bölümü, 2019 - Continues

Assistant Professor, Erzincan Binali Yildirim University, Ali Cavit Çelebioğlu Sivil Havacılık Yüksekokulu, Havacılık Elektrik ve Elektronik Bölümü, 2018 - 2019

Assistant Professor, Erzincan Binali Yildirim University, Ali Cavit Çelebioğlu Sivil Havacılık Yüksekokulu, Uçak Gövde-Motor Bölümü, 2016 - 2018

Expert, Erzincan Binali Yildirim University, Meslek Yüksekokulu, Elektronik ve Otomasyon Bölümü, 2009 - 2016

Courses

Topluma Hizmet Uygulamaları, Undergraduate, 2021 - 2022

Bilgisayar, Undergraduate, 2021 - 2022

Bilimsel Araştırma Yöntemleri ve Etik, Postgraduate, 2021 - 2022

İstatistik Uygulamaları, Postgraduate, 2020 - 2021

Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Gümüşhane Üniversitesi, December, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Gümüşhane Üniversitesi, September, 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Machine Learning-Aided Synthetic Air Data System for Commercial Aircraft**
Kılıç U., Çam Ö., Can E.
JOURNAL OF AEROSPACE ENGINEERING, vol.37, no.5, pp.1-21, 2024 (SCI-Expanded)
- II. **Torques and the speed vibrations reducing and optimization of asynchronous motor with ECCA-PID controlling in power system**
Can E.
Sadhana - Academy Proceedings in Engineering Sciences, vol.49, no.2, 2024 (SCI-Expanded)
- III. **DC-DC converter with multiple inputs and full isolated multi ports charging battery in photovoltaic energy systems**
Can E.
Sadhana - Academy Proceedings in Engineering Sciences, vol.49, no.2, 2024 (SCI-Expanded)
- IV. **A new high-frequency multilevel inverter effecting cables weight and energy efficiency of aircraft**
Can E., Kılıç U.
Aircraft Engineering and Aerospace Technology, vol.96, no.3, pp.458-464, 2024 (SCI-Expanded)
- V. **Investigation of the effect of the gap at the zero-crossing point of PWMs creating the first level voltage in a multi-level inverter**
Can E., , Sayan H. H.,
JOURNAL OF ENGINEERING RESEARCH, vol.11, pp.100-111, 2023 (SCI-Expanded)
- VI. **A flexible closed-loop (fcl) pid and dynamic fuzzy logic + pid controllers for optimization of dc motor**
CAN E., Toksoy M. S.
Journal of Engineering Research (Kuwait), vol.11, no.1, pp.245-257, 2023 (SCI-Expanded)
- VII. **Development of fractional sinus pulse width modulation with β gap on three step signal processing**
Can E., Sayan H. H.
International Journal of Electronics, vol.110, no.3, pp.527-546, 2023 (SCI-Expanded)
- VIII. **Variable determined for optimization of alternating energy on the load by the adaptive Taguchi method**
CAN E.
Journal of Engineering Research (Kuwait), vol.10, no.4, pp.316-335, 2022 (SCI-Expanded)
- IX. **The levels effect of the voltage generated by an inverter with partial source on distortion**
Can E.
INTERNATIONAL JOURNAL OF ELECTRONICS, vol.107, no.9, pp.1414-1435, 2020 (SCI-Expanded)
- X. **The design and experimentation of the new cascaded DC-DC boost converter for renewable energy**
Can E.
INTERNATIONAL JOURNAL OF ELECTRONICS, vol.106, pp.1374-1393, 2019 (SCI-Expanded)
- XI. **Fault Determination and Analysis of Complex Switching Structure at Multilevel Inverter**
CAN E.
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.26, no.2, pp.398-404, 2019 (SCI-Expanded)
- XII. **Analysis and Performance with Vertical Divided Multilevel Voltage on Phase of Induction Engine**
CAN E.
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.25, no.3, pp.687-693, 2018 (SCI-Expanded)
- XIII. **A novel SSPWM controlling inverter running nonlinear device**
Can E., Sayan H. H.

- ELECTRICAL ENGINEERING, vol.100, pp.39-46, 2018 (SCI-Expanded)
- XIV. **Novel high multilevel inverters investigated on simulation**
CAN E.
ELECTRICAL ENGINEERING, vol.99, no.2, pp.633-638, 2017 (SCI-Expanded)
- XV. **THE INCREASING HARMONIC EFFECTS OF SSPWM MULTILEVEL INVERTER CONTROLLING LOAD CURRENTS INVESTIGATED ON MODULATION INDEX**
Can E., Sayan H. H.
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.24, pp.397-404, 2017 (SCI-Expanded)
- XVI. **SSPWM THREE PHASE INVERTER DESIGN AND EXPERIMENTED ON UNBALANCED LOADS**
CAN E., Sayan H. H.
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.23, no.5, pp.1239-1244, 2016 (SCI-Expanded)
- XVII. **PID AND FUZZY CONTROLLING THREE PHASE ASYNCHRONOUS MACHINE BY LOW LEVEL DC SOURCE THREE PHASE INVERTER**
CAN E., Sayan H. H.
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.23, no.3, pp.753-760, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **PID Control of Hybrid DC-DC Converter System in Complex Load with Double Reference Time**
Can E., Gülnahar M.
TEHNICKI GLASNIK-TECHNICAL JOURNAL, vol.18, no.1, pp.63-72, 2024 (ESCI)
- II. **Ac-Dc multi pulse converter for dc power distribution system in aircraft**
Can E., Kiliç U.
INTERNATIONAL JOURNAL OF MODELLING AND SIMULATION, vol.44, no.3, pp.115-125, 2023 (ESCI)
- III. **A Common Capacitor Hybrid Buck-Boost Converter**
CAN E.
Jordan Journal of Electrical Engineering, vol.9, no.1, pp.71-83, 2023 (Scopus)
- IV. **EXTRA CONTROL COEFFICIENT ADDITIVE ECCA-PID FOR CONTROL OPTIMIZATION OF ELECTRICAL AND MECHANIC SYSTEM**
CAN E.
Acta Polytechnica, vol.62, no.5, pp.522-530, 2022 (ESCI)
- V. **The inverter with reverse connected double converter driving unbalanced loads**
Can E.
INTERNATIONAL JOURNAL OF MODELLING AND SIMULATION, vol.42, no.2, pp.217-226, 2022 (ESCI)
- VI. **A new multi-level inverter with reverse connected dual dc to dc converter at simulation**
Can E.
International Journal of Modelling and Simulation, vol.42, no.1, pp.34-46, 2022 (ESCI)
- VII. **Operation of DC Motor with Multi-Level Inverter in PWAM Method**
CAN E.
TECCIENCIA, vol.16, no.30, pp.1-14, 2021 (ESCI)
- VIII. **ENERGY TRANSFORMATION WITHOUT USING FILTER ON HIGH RESISTIVE LOAD**
Can E.
ENGINEERING REVIEW, vol.40, no.1, pp.39-47, 2020 (ESCI)
- IX. **Application of Adaptive Neuro-Fuzzy Logic Method of Noised Electrical Signals for Correction**
CAN E.
TECCIENCIA, vol.15, no.28, pp.1-13, 2020 (ESCI)
- X. **The Application of Multi-Phase Power Distribution Line with Pure Energy Conversion**
CAN E.
JURNAL KEJURUTERAAN, vol.31, no.2, pp.193-199, 2019 (ESCI)
- XI. **The Load Performance of Multi-Level Alternating Voltage Provided by Upgrade Effect**

- CAN E.
JURNAL KEJURUTERAAN, vol.31, no.2, pp.249-259, 2019 (ESCI)
- XII. **POWER REGULATION BY COUPLE HALF WAVE LPWM RECTIFIER AT THREE-PHASE LOADS**
Can E.
TEHNICKI GLASNIK-TECHNICAL JOURNAL, vol.13, pp.184-191, 2019 (ESCI)
- XIII. **PWM CONTROLLING OF A NEW MULTI DC-DC CONVERTER CIRCUIT**
Can E.
TEHNICKI GLASNIK-TECHNICAL JOURNAL, vol.13, no.2, pp.116-122, 2019 (ESCI)
- XIV. **MATHEMATICAL ALGORITHM OF FUZZY LOGIC CONTROLLER FOR MULTILEVEL INVERTER CREATING VERTICAL DIVIDED VOLTAGE**
CAN E.
ACTA POLYTECHNICA, vol.59, no.1, pp.1-11, 2019 (Peer-Reviewed Journal)
- XV. **THE MODELING AND ANALYSIS OF A POWER TRANSMISSION LINE SUPPLIED BY A SOLAR POWER PLANT**
Can E.
TEHNICKI GLASNIK-TECHNICAL JOURNAL, vol.12, pp.124-130, 2018 (ESCI)
- XVI. **DC Motor Controlled by IGBT Switches with Linear Pulse Width Modulation**
Can E.
Erzincan University Journal of Science and Technology , vol.10, pp.314-320, 2017 (Peer-Reviewed Journal)
- XVII. **The performance of the DC motor by the PID controlling PWM DC-DC boost converter**
Can E.
TEHNICKI GLASNIK-TECHNICAL JOURNAL, vol.11, no.4, pp.182-187, 2017 (ESCI)
- XVIII. **Different Mathematical Model for the Chopper Circuit**
Can E.
TEHNICKI GLASNIK-TECHNICAL JOURNAL, vol.10, pp.13-15, 2016 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **SETTLING OF FUZZY LOGIC CONTROLLING ACCORDING TO ELECTRICAL ANGLE**
Can E.
ICMME 2017, Elazığ, Turkey, 13 April 2017, pp.1-2
- II. **ANALYSIS OF ELECTRICAL MACHINERY WITH INTERIOR VARIABLES**
Can E.
International Conference on Mathematics and Mathematics Education (ICMME-2016), 13 - 16 Nisan 2017, Şanlıurfa, Turkey, 13 April 2017, pp.3
- III. **Step Sinus Pulse Width Modulation Inverter Application**
Can E.
International Conference on Mathematics and Mathematics Education (ICMME-2016) , Elazığ, Turkey, 12 May 2016, pp.442

Supported Projects

Can E., TUBITAK Project, İnsansız Hava Araçları İçin Algılayıcı Arızası Tespiti, Sistemin Yeniden Yapılandırılması Ve İzlenmesi, 2022 - 2023

Scientific Refereeing

ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, February 2022

JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY, SCI Journal, February 2022
Current Journal of Applied Science and Technology, Other Indexed Journal, January 2022
JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY, SCI Journal, January 2022
ARTIFICIAL INTELLIGENCE REVIEW, SCI Journal, December 2021
INTERNATIONAL TRANSACTIONS ON ELECTRICAL ENERGY SYSTEMS, SCI Journal, December 2021
JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY, SCI Journal, December 2021
ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, November 2021
Journal of The Institution of Engineers (India): Series B | Home, Other journals, November 2021
ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, November 2021
ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, October 2021
Indonesian Journal of Electrical Engineering and Computer Science, Other Indexed Journal, October 2021
ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, September 2021
ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, June 2021
INTERNATIONAL TRANSACTIONS ON ELECTRICAL ENERGY SYSTEMS, SCI Journal, June 2021
ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, May 2021
JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY, SCI Journal, April 2021
ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, April 2021
ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, March 2021
INTERNATIONAL TRANSACTIONS ON ELECTRICAL ENERGY SYSTEMS, SCI Journal, March 2021
INTERNATIONAL JOURNAL OF ELECTRONICS, SCI Journal, March 2021
JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY, SCI Journal, February 2021
ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, February 2021
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TEHNICKI VJESNIK-TECHNICAL GAZETTE, SCI Journal, November 2020
INTERNATIONAL JOURNAL OF ELECTRONICS, SCI Journal, November 2020
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INTERNATIONAL JOURNAL OF ELECTRONICS, SCI Journal, June 2020
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, SCI Journal, June 2020
JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY, SCI Journal, June 2020
ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, June 2020
JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY, SCI Journal, May 2020
JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY, SCI Journal, May 2020

ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, May 2020
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ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, April 2020
JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY, SCI Journal, March 2020
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IEEE TRANSACTIONS ON POWER ELECTRONICS, SCI Journal, March 2020
ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, February 2020
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JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY, SCI Journal, January 2020
ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, January 2020
TEHNICKI VJESNIK-TECHNICAL GAZETTE, SCI Journal, January 2020
JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY, SCI Journal, January 2020
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, SCI Journal, January 2020
ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, December 2019
IEEE TRANSACTIONS ON POWER ELECTRONICS, SCI Journal, November 2019
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IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, SCI Journal, November 2019
ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, October 2019
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ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, August 2019
INTERNATIONAL TRANSACTIONS ON ELECTRICAL ENERGY SYSTEMS, SCI Journal, August 2019
INTERNATIONAL TRANSACTIONS ON ELECTRICAL ENERGY SYSTEMS, SCI Journal, August 2019
ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, July 2019
ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, July 2019
ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, June 2019
INTERNATIONAL JOURNAL OF ELECTRONICS, SCI Journal, June 2019
INTERNATIONAL JOURNAL OF ELECTRONICS, SCI Journal, May 2019
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, SCI Journal, May 2019
IEEE TRANSACTIONS ON POWER ELECTRONICS, SCI Journal, April 2019
IEEE TRANSACTIONS ON POWER ELECTRONICS, SCI Journal, April 2019
ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, April 2019
ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, March 2019
INTERNATIONAL JOURNAL OF ELECTRONICS, SCI Journal, March 2019
ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, February 2019
INTERNATIONAL TRANSACTIONS ON ELECTRICAL ENERGY SYSTEMS, SCI Journal, February 2019
ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, February 2019
IEEE TRANSACTIONS ON POWER ELECTRONICS, SCI Journal, February 2019
ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, January 2019
ELECTRIC POWER SYSTEM REASERCH, SCI Journal, October 2018
ELECTRIC POWER SYSTEM REASERCH, SCI Journal, September 2018
Tecnical Gazette, SCI Journal, August 2018
ELECTRIC POWER SYSTEM REASERCH, SCI Journal, July 2018
INTERNATIONAL JOURNAL OF ELECTRONIC, SCI Journal, July 2018
INTERNATIONAL JOURNAL OF ELECTRONIC, SCI Journal, June 2018
ELECTRIC POWER SYSTEM REASERCH, SCI Journal, June 2018
ELECTRIC POWER SYSTEM REASERCH, SCI Journal, May 2018
INTERNATIONAL JOURNAL OF ELECTRONIC, SCI Journal, May 2018
Simulation: Transactions of the Society for Modeling and Simulation International, SCI Journal, July 2017
ELECTRIC POWER SYSTEM RESEARCH, SCI Journal, July 2017

ELECTRIC POWER SYSTEM RESEARCH, SCI Journal, May 2017
ELECTRIC POWER SYSTEM RESEARCH, SCI Journal, March 2017
ELECTRIC POWER SYSTEM RESEARCH, SCI Journal, January 2017
IEEE Transactions on Industrial Electronics, SCI Journal, December 2016
Electric Power Systems Research,Elsevier, SCI Journal, December 2016
ELECTRICAL ENGINEERING,SPRINGER, SCI Journal, November 2016
Electric Power Systems Research, SCI Journal, November 2016
Electric Power Systems Research, SCI Journal, November 2016
Electric Power Systems Research, SCI Journal, October 2016
Electric Power Systems Research, SCI Journal, September 2016
Electric Power Systems Research,Elsevier, SCI Journal, August 2016
Electric Power Systems Research-Elsevier, SCI Journal, July 2016
Journal of The Institution of Engineers, Other Indexed Journal, July 2016
Electric Power Systems Research-Elsevier, SCI Journal, June 2016
Electric Power Systems Research-Elsevier, SCI Journal, May 2016
Electric Power Systems Research-Elsevier, SCI Journal, November 2015

Metrics

Publication: 38
Citation (WoS): 215
Citation (Scopus): 188
H-Index (WoS): 10
H-Index (Scopus): 10

Awards

Can E., Akademik Bilim ve Sanat Ödülü, Erzincan Üniversitesi-Ekev, December 2020
Can E., Akademik Bilim ve Sanat Ödülü, Erzincan Üniversitesi- Ekev, May 2019
Can E., TÜBİTAK Yayın Teşvik Ödülü, Tübitak, November 2018
Can E., EKEV Akademik Bilim ve Sanat Ödülü, Erzincan Üniversitesi - Ekev, May 2018
Can E., Tubitak Yayın Teşvik Ödülü, Tubitak Yayın Teşvik Ödülü, June 2017

Non Academic Experience

BAYBURT MYO