

Prof.Dr. EROL KURT

Kişisel Bilgiler

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Biyografi

Prof. Dr. Erol KURT took his M. Sc. degree from the Inst. Science & Technology, Gazi University in Ankara, Turkey in 2001. He was awarded by an European Graduate College Grant during his Ph. D study at the Inst. Physics & Math., Bayreuth University in Germany. He completed his Ph. D. degree in 2004 on the instabilities of rotating magnetic fluids and worked at Turkish Atomic Energy Authority R&D Department for 3 years. He was assigned to the position of Assoc. Prof. at Technology Faculty, Gazi University. His main research areas include nonlinear phenomena in electrical/electronic circuits, electric machine design, mechanical vibrations, chaos, plasmas and magneto hydrodynamics. He is chairman to serial European Conference on Renewable Energy Systems (ECRES) and the guest editor for some reputable journals. He is the Editor-in-Chief to Journal of Energy Systems (dergipark.org.tr/jes) and the member of Turkish Science Research Foundation (TUBAV).

Eğitim Bilgileri

Doktora, Universitaet Bayreuth, Physik und Mathematik, Almanya 2001 - 2004

Yüksek Lisans, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Türkiye 1998 - 2001

Lisans, Gazi Üniversitesi, Gazi Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, Türkiye 1994 - 1998

Yabancı Diller

İngilizce, C1 İleri

Almanca, A2 Temel

Yaptığı Tezler

Doktora, Patern formation in rotating fluid systems under the influence of magnetic fields, Universitat Bayreuth, Fizik, 2004

Yüksek Lisans, Fe-8.62Mn-5.52Cu alaşımında austenite-martensite faz dönüşümünün kristalografik ve kinetik özellikleri, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, 2001

Araştırma Alanları

Elektromanyetik, MEMS, Gazlar, Plazmalar ve Elektriksel Boşalmalar Fiziği, Nükleer mühendislik ve nükleer enerji çalışmaları

Akademik Unvanlar / Görevler

Prof.Dr., Gazi Üniversitesi, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2013 - Devam Ediyor
Doç.Dr., Gazi Üniversitesi, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2011 - 2013
Araştırma Görevlisi, Universitaet Bayreuth, Faculty Of Physics And Informatics, Physics, 2001 - 2004
Araştırma Görevlisi, Gazi Üniversitesi, Fen Fakültesi, Fizik, 1999 - 2001

Akademik İdari Deneyim

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Gazi Üniversitesi, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2019 - Devam Ediyor
Erasmus Koordinatörü, Gazi Üniversitesi, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2019 - 2021
Birim Kalite Komisyonu Üyesi, Gazi Üniversitesi, 2019 - 2019
Bölüm Başkan Yardımcısı, Gazi Üniversitesi, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, 2011 - 2012

Verdiği Dersler

Elektromanyetik Alanların Bilgisayar Destekli Analizi, Doktora, 2017 - 2018
ELEKTROMANYETİK ALAN TEORİSİ, Lisans, 2017 - 2018, 2016 - 2017
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Elektrik Devrelerinde Kaos, Yüksek Lisans, 2016 - 2017

Yönetilen Tezler

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Jüri Üyelikleri

Doçentlik Sınavı, Doçentlik Sınavı, Gazi Üniversitesi, Kasım, 2020

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Design and Implementation of a MHz Frequency Transformer with a Ferromagnetic Fluid Core**
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- II. **Feasibility analysis of solar photovoltaics for the feeding of cooling pump of a natural gas power plant**
Terzi R., KURT E.
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- III. **Design and implementation of a X Band 9 GHz cavity magnetron for microwave applications**
KURT E., Yildiz Y.
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- IV. **Numerical analyses of the concentrated solar receiver pipes with superheated steam**
KURT E., Demirci M., Sahin H. M.
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- V. **Design and implementation of a bioinspired leaf shaped hybrid rectenna as a green energy manufacturing concept**
Çelik K., Kurt E.
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- VI. **A New Artificial Neural Network Model for the Output Voltage and Power Predictions of Permanent Magnet Generators with Variable Air Gaps**
Tekerek A., Kurt E., Tekerek M.
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- VII. **Artificial neural network analysis on an axial flux permanent magnet generator having variable air gap and power regime**
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- VIII. **Estimating State of Charge and State of Health of Vented NiCd Batteries with Evolution of Electrochemical Parameters**
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- IX. **Optimization of a 3-kW axial flux permanent magnet generator with variable air gap**
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- X. **Design and implementation of a dual band bioinspired leaf rectenna for RF energy harvesting applications**
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- XI. **Design and Implementation of a Maximum Power Point Tracking System for a Piezoelectric Wind**

- Energy Harvester Generating High Harmonicity**
KURT E., ÖZHAN D., Bizon N., Manuel Lopez-Guede J.
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- XII. **High Temperature VLRA Lead Acid Battery SOH Characterization Based on the Evolution of Open Circuit Voltage at Different States of Charge**
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- XIII. **A new algorithm for the colored image encryption via the modified Chua's circuit**
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- XV. **Wind turbine speed control of a contactless piezoelectric wind energy harvester**
Celik E., KURT E., ÖZTÜRK N.
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- XVI. **Effects of Aging and Environmental Factors on Performance of CdTe and CIS Thin-Film Photovoltaic Modules**
DEMİRTAŞ M., Tamyurek B., KURT E., ÇETİNBAŞ İ., Ozturk M. K.
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- XVII. **Preface: special issue on Advances in Energy Explorations**
KURT E., Gömeç Ç., Kabdaşlı N. I.
ENVIRONMENTAL TECHNOLOGY, cilt.41, sa.1, ss.1, 2019 (SCI-Expanded)
- XVIII. **Better Fuel Economy by Optimizing Airflow of the Fuel Cell Hybrid Power Systems Using Fuel Flow-Based Load-Following Control**
Bizon N., Mazare A. G., Ionescu L. M., Thounthong P., KURT E., Oproescu M., Serban G., Lita I.
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- XIX. **Exploration of a Stirling engine and generator combination for air and helium media**
Shufat S. A., KURT E., ÇINAR C., AKSOY F., HANÇERLİOĞULLARI A., SOLMAZ H.
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- XX. **A novel meander line integrated E-shaped rectenna for energy harvesting applications**
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- XXI. **Hydrogen economy of the fuel cell hybrid power system optimized by air flow control to mitigate the effect of the uncertainty about available renewable power and load dynamics**
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- XXIII. **Exploration of a Permanent Magnet Synchronous Generator with Compensated Reactance Windings in Parallel Rod Configuration**
Lyan O., Jankunas V., Guseinoviene E., Pasilis A., Senulis A., Knolis A., KURT E.
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- XXIV. **A Neural Network Design for the Estimation of Nonlinear Behavior of a Magnetically-Excited Piezoelectric Harvester**
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- XXV. **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.
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- XXVI. **Analytical and experimental studies on a new linear energy harvester**
KURT E., KALE M., Akbaba S., Bizon N.
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- XXVII. **Mitigation of high harmonicity and design of a battery charger for a new piezoelectric wind energy harvester**
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- XXVIII. **Contributions of Bottom-Up Energy Transitions in Germany: A Case Study Analysis**
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- XXIX. **Effects of Back Iron Components on Efficiency and Generated Power for New Wind Energy Generators**
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- XXX. **Experimental and Theoretical Explorations on the Buckling Piezoelectric Layer Under Magnetic Excitation**
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- XXXI. **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.
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- XXXII. **Performance analysis of the tracking of the global extreme on multimodal patterns using the Asymptotic Perturbed Extremum Seeking Control scheme**
Bizon N., KURT E.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.42, sa.28, ss.17645-17654, 2017 (SCI-Expanded)
- XXXIII. **Energy distributions and radiation emissions in an inertial electrostatic confinement (IEC) device under low and moderate magnetic fields**
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INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.42, sa.28, ss.17874-17885, 2017 (SCI-Expanded)
- XXXIV. **Application of artificial neural network to estimate power generation and efficiency of a new axial flux permanent magnet synchronous generator**
Celik E., Gor H., ÖZTÜRK N., KURT E.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.42, sa.28, ss.17692-17699, 2017 (SCI-Expanded)
- XXXV. **Power control optimization of a new contactless piezoelectric harvester**
Zulueta E., KURT E., UZUN Y., Manuel Lopez-Guede J.
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- XXXVI. **Design and implementation of a new contactless triple piezoelectrics wind energy harvester**
KURT E., Cottone F., UZUN Y., Orfei F., Mattarelli M., ÖZHAN D.
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- XXXVII. **An inverter design for a new permanent magnet synchronous generator**
GÜLER N., IRMAK E., Gor H., KURT E.
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- XXXVIII. **Energy Harvesting and Energy Efficiency Technology, Methods, and Applications Preface**
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- XXXIX. **Nonlinear Problems in Piezoelectric Harvesters Under Magnetic Field**
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- XL. **Many-body solution to the D-2 gas filled inertial electrostatic confinement device**
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- XLI. **Waveform characteristics and losses of a new double sided axial and radial flux generator**
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- XLII. **Theoretical and Experimental Exploration of Breakdown Phenomena in an Argon-Filled GaP Device**
KURT H. H., Tanriverdi E., KURT E.
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- XLIII. **Energy and exergy analyses of a VVER type nuclear power plant**
Terzi R., Tukenmez I., KURT E.
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- XLIV. **Exploration of the Chaotic Behaviour in a Buck-Boost Converter Depending on the Converter and Load Elements**
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- XLV. **Preface to the special issue on "3rd European Conference on Renewable Energy Systems (ECRES' 2015), 7-10 October 2015, Kerner, Antalya, Turkey"**
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- XLVI. **Design and control of a stand-alone hybrid power system**
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- XLVII. **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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- XLVIII. **Particle Trajectories and Energy Distribution from a New IEC Fusion Device: A Many-Body Approach**
KURT E., DURSUN B.
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- XLIX. **Preliminary studies of a new permanent magnet generator (PMG) with the axial and radial flux morphology**
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- L. **Electromagnetic design of a new axial and radial flux generator with the rotor back-irons**
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- LI. **Estimation of mechanical properties of welded S355J2+N steel via the artificial neural network**
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- LII. **Design and simulation of a unified power quality conditioner fed by solar energy**
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- LIII. **Influence of void fraction on BWR spent fuel direct recycling scenario**
Waris A., Su'ud Z., Sahin H. M., KURT E., ŞAHİN S.
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- LV. **Design and simulation of a solar supplied multifunctional active power filter and a comparative study on the current-detection algorithms**
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- LVI. **Bifurcation analysis of a resistor-double inductor and double diode circuit and a comparison with a resistor-inductor-diode circuit in phase space and parametrical responses**
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- LVII. **Theoretical and experimental analyses of a single phase permanent magnet generator (PMG) with multiple cores having axial and radial directed fluxes**
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- LVIII. **Implementation of a New Contactless Piezoelectric Wind Energy Harvester to a Wireless Weather Station**
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- LIX. **Electromagnetic Design and Simulation of a New Fusion Device**
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- LX. **Performance exploration of an energy harvester near the varying magnetic field of an operating induction motor**
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- LXI. **The effect of periodic magnetic force on a piezoelectric energy harvester**
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- LXII. **An inertial electrostatic confinement (IEC) device modeling and the effects of different cathode structures to the fields**
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- LXIII. **Effects of Grid Structures and Dielectric Materials of the Holder in an Inertial Electrostatic Confinement (IEC) Fusion Device**
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- LXIV. **A stationary multi-component cathode modeling and ion trajectories for an inertial electrostatic confinement fusion device**
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- LXV. **Alternative numerical modeling of a superconducting charge qubit as an eigenvalue problem**
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- LXVI. **BIFURCATIONS AND HYPERCHAOS FROM A DC DRIVEN NONIDENTICAL JOSEPHSON JUNCTION SYSTEM**
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- LXVII. **Chaotic dynamics of resistively coupled DC-driven distinct Josephson junctions and the effects of circuit parameters**

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- LXVIII. **Ionization effects and linear stability in a coaxial plasma device**
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