

Prof.Dr. MUAMMER ERMİŞ

Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Türkiye 1976 - 1982

Yaptığı Tezler

Doktora, Modelling and Analysis of a Wind Turbine Driven Self-Excited Induction Generator, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1982

Akademik Unvanlar / Görevler

Prof.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1974 - Devam Ediyor

Yönetilen Tezler

ERMİŞ M., HYSTERESIS BAND CONTROL OF HYBRID ACTIVE POWER FILTER: AN APPLICATION TO A MEDIUM-FREQUENCY INDUCTION MELTING FURNACE, Doktora, E.DURNA(Öğrenci), 2018

ERMİŞ M., Design and implementation of a three phase grid connected sic solar inverter, Yüksek Lisans, M.CANVER(Öğrenci), 2018

ERMİŞ M., Design and implementation of a SiC based three phase grid connected current source inverter for solar applications, Yüksek Lisans, O.BAY(Öğrenci), 2017

ERMİŞ M., Development of fast and robust spectral decomposition method for nonlinear industrial loads with current frequency spectrum rich in harmonic and interharmonic content, Doktora, E.UZ(Öğrenci), 2016

ERMİŞ M., Design of an interleaved PWM rectifier for AC locomotives and implementation of its laboratory prototype, Yüksek Lisans, M.UĞUR(Öğrenci), 2015

ERMİŞ M., Online application of SHEM to grid-connected inverters with DC link voltage by particle swarm optimization, Yüksek Lisans, U.GÜVENGİR(Öğrenci), 2014

ERMİŞ M., Elimination of transformer core saturation in cascaded multilevel converter based T-statcom systems, Doktora, C.ÖZGÜR(Öğrenci), 2014

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ERMİŞ M., Design and development of a simple power quality monitor for low voltage distribution system, Yüksek Lisans, Ö.YAZLIK(Öğrenci), 2014

ERMİŞ M., Modeling and design of iron-core shunt reactors with discretely distributed air-gaps, Doktora, A.DÖNÜK(Öğrenci), 2012

ERMİŞ M., Cascaded multilevel converter based transmission STATCOM: System design methodology and development of a 12kV \pm 12MvAr power-stage, Doktora, B.GÜLTEKİN(Öğrenci), 2012

ERMİŞ M., Adaptive control of DC link current in current source converter based statcom for improving its power losses,

Yüksek Lisans, F.KARADUMAN(Öğrenci), 2012

ERMİŞ M., A current source converter based STATCOM for reactive power compensation at low voltage, Yüksek Lisans, N.BİÇER(Öğrenci), 2010

ERMİŞ M., Design and implementation of a current source converter based active power filter for medium voltage applications, Doktora, A.TERCİYANLI(Öğrenci), 2010

ERMİŞ M., Flicker source identification at a point of common coupling of the power system, Yüksek Lisans, E.ALTINTAŞ(Öğrenci), 2010

ERMİŞ M., Design and implementation of thyristor switched shunt capacitors, Yüksek Lisans, E.UZ(Öğrenci), 2010

ERMİŞ M., Calibration of conventional measurement transformers against harmonic components by using field measurements of optical transducers and resistive-capacitive voltage transformers, Yüksek Lisans, C.AZİZ(Öğrenci), 2010

ERMİŞ M., A new field-data based EAF (electric arc furnace) model applied to power quality studies, Yüksek Lisans, M.GÖL(Öğrenci), 2009

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ERMİŞ M., Comparison of various SVC topologies and control strategies for heavy industry, Yüksek Lisans, E.YALVAÇ(Öğrenci), 2009

ERMİŞ M., Investigation of multilevel inverters for D-statcom applications, Yüksek Lisans, M.DENİZ(Öğrenci), 2009

ERMİŞ M., Design, implementation and engineering aspects of TCR for industrial SVC systems, Doktora, H.BİLGE(Öğrenci), 2008

ERMİŞ M., Electromagnetic compatibility of electric power quality monitor according to EN 61326 standard, Yüksek Lisans, Ö.YAMAN(Öğrenci), 2007

ERMİŞ M., Optimizing transient and filtering performance of a C-type 2nd harmonic power filter by the use of solid-state switches, Yüksek Lisans, C.ÖZGÜR(Öğrenci), 2007

ERMİŞ M., Design and digital implementation of thyristor controlled reactor control, Yüksek Lisans, M.GENÇ(Öğrenci), 2007

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ERMİŞ M., Performance of a dynamic voltage restorer for a practical situation, Yüksek Lisans, G.OĞUZ(Öğrenci), 2004

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ERMİŞ M., The Analysis of a dynamic voltage restorer based on load side connected shunt converter topology, Yüksek Lisans, Ç.ACAR(Öğrenci), 2002

ERMİŞ M., Brushless dc motor position control for a control actuation system, Yüksek Lisans, A.YILMAZKOÇLAR(Öğrenci), 2002

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ERMİŞ M., Modeling and simulation methods in power electronics and design and simulation of a shunt active power filter using MATLAB/SIMULINK, Yüksek Lisans, K.ÇAĞATAY(Öğrenci), 2000

ERMİŞ M., Design and simulation of single quadrant DC motor drive based on buck type PWM rectifier at unity power factor, Yüksek Lisans, H.FARUK(Öğrenci), 2000

ERMİŞ M., DSP based implementation of a shunt active power filter with instantaneous reactive power theory, Yüksek Lisans, C.TOKGÖZ(Öğrenci), 2000

ERMİŞ M., Transient over voltage protection in low voltage power electronic systems: Subject review and case studies, Yüksek Lisans, A.SERKAN(Öğrenci), 1999

ERMİŞ M., Design and implementation of a 20 kw 20 kHz unity power factor boost chopper, Yüksek Lisans,

S.VARMA(Öğrenci), 1997
ERMİŞ M., Design of reactive power compensator and its filter reactor, Yüksek Lisans, G.ELİŞ(Öğrenci), 1997
ERMİŞ M., A thyristorized induction motor softstarter: Analysis and performance optimization by a hybrid model, Yüksek Lisans, C.BARLAK(Öğrenci), 1996
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ERMİŞ M., Design and implementation of a medium voltage thyristor controller reactor, Yüksek Lisans, M.UTALAY(Öğrenci), 1996
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ERMİŞ M., A Solar pumping system with maximum power point tracking, Yüksek Lisans, Ü.ORLU(Öğrenci), 1993
ERMİŞ M., Thyristor de circuit breaker controlled by a microcomputer, Yüksek Lisans, H.ZENGİNCE(Öğrenci), 1993
ERMİŞ M., Implementation of an autonomous photovoltaic based DC supply with motor generator backup, Yüksek Lisans, L.SİNAN(Öğrenci), 1993
ERMİŞ M., A New method for the analysis of induction through heating of cylindrical work-pieces, Yüksek Lisans, Ö.TANBOĞA(Öğrenci), 1992
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ERMİŞ M., A DC/DC converter system for maximum power point tracking in small photovoltaic systems, Yüksek Lisans, T.MALERİ(Öğrenci), 1988

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- **Full-Scale Physical Simulator of All SiC Traction Motor Drive With Onboard Supercapacitor ESS for Light-Rail Public Transportation**
Yildirim D., Aksit M. H. , Yolacan C., Pul T., Ermis C., Aghdam B. H. , ÇADIRCI İ., ERMİŞ M.
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, cilt.67, ss.6290-6301, 2020 (SCI İndekslerine Giren Dergi)
- **All SiC PWM rectifier-based off-board ultrafast charger for heavy electric vehicles**
Yildirim D., Ozturk S., ÇADIRCI İ., ERMİŞ M.
IET POWER ELECTRONICS, cilt.13, ss.483-494, 2020 (SCI İndekslerine Giren Dergi)
- **Real-Time Detection of Interharmonics and Harmonics of AC Electric Arc Furnaces on GPU Framework**

Uz-Logoglu E., Salor O., ERMİŞ M.

IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, cilt.55, ss.6613-6623, 2019 (SCI İndekslerine Giren Dergi)

Operating principles and practical design aspects of all SiC DC/AC/DC converter for MPPT in grid-connected PV supplies

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Exponential Smoothing of Multiple Reference Frame Components With GPUs for Real-Time Detection of Time-Varying Harmonics and Interharmonics of EAF Currents

Balouji E., Salor O., ERMİŞ M.

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Guvengir U., ÇADIRCI I., ERMİŞ M.

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All SiC Grid-Connected PV Supply with HF Link MPPT Converter: System Design Methodology and Development of a 20 kHz, 25 kVA Prototype

ÖZTÜRK S., Canver M., ÇADIRCI I., ERMİŞ M.

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Square prism micropillars improve osteogenicity of poly(methyl methacrylate) surfaces

Hasturk O., ERMİŞ M., Demirci U., Hasirci N., HASIRCI V. N.

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Suppression of the Second Harmonic Subgroup Injected by an AC EAF: Design Considerations and Performance Estimation of a Shunt APF

Durna E., Gercek C. O., Salor O., ERMİŞ M.

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Altintas E., Salor O., Buyukdagli U., ÇADIRCI I., ERMİŞ M.

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Uz-Logoglu E., Salor O., ERMİŞ M.

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Identification of Harmonic Current Contributions of Iron and Steel Plants Based on Time-Synchronized Field Measurements-Part II: Inside Plants

Unsar O., Salor O., ÇADIRCI I., ERMİŞ M.

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IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, cilt.63, ss.566-582, 2014 (SCI İndekslerine Giren Dergi)

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Kucuk D., Salor O., Guder M., Demirci T., Inan T., Akkaya Y., Cadirci I., ERMİŞ M.

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Design, Implementation, and Operation of a New C-Type 2nd Harmonic Filter for Electric Arc and Ladle Furnaces

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● **Current source converter based STATCOM: Operating principles, design and field performance**
Bilgin H. F. , ERMİŞ M.

● ELECTRIC POWER SYSTEMS RESEARCH, cilt.81, ss.478-487, 2011 (SCI İndekslerine Giren Dergi)

● **A Selective Harmonic Amplification Method for Reduction of kVA Rating of Current Source Converters in Shunt Active Power Filters**

Terciyanlı A., ERMİŞ M., Cadirci I.

● IEEE TRANSACTIONS ON POWER DELIVERY, cilt.26, ss.65-78, 2011 (SCI İndekslerine Giren Dergi)

● **Design and Implementation of a Current-Source Converter for Use in Industry Applications of D-STATCOM**

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● IEEE TRANSACTIONS ON POWER ELECTRONICS, cilt.25, ss.1943-1957, 2010 (SCI İndekslerine Giren Dergi)

● **An extensible database architecture for nationwide power quality monitoring**

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● **A New Field-Data-Based EAF Model for Power Quality Studies**

Gol M., Salor O., ALBOYACI B., Mutluer B., ÇADIRCI I., ERMİŞ M.

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● **PQONT: A domain ontology for electrical power quality**

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● ADVANCED ENGINEERING INFORMATICS, cilt.24, ss.84-95, 2010 (SCI İndekslerine Giren Dergi)

● **Electrical Power Quality of Iron and Steel Industry in Turkey**

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Cetin A., ERMİŞ M.

● IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, cilt.45, ss.1000-1015, 2009 (SCI İndekslerine Giren Dergi)

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Bayindir K. C. , Ermis M.

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Diğer Dergilerde Yayınlanan Makaleler

● **Suppression factor as evaluation criterion for wide-frequency filtering equipment**

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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

● **Effect of Grey Wolf Optimization on THD of 3-Phase Voltage Source Inverter with Selective Harmonic Elimination Base**

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● **Selective Harmonic Elimination for Three-Phase Voltage Source Inverters Using Whale Optimizer Algorithm**

Nalcaci G., ERMİŞ M.

5th International Conference on Electrical and Electronics Engineering (ICEEE), İstanbul, Türkiye, 3 - 05 Mayıs 2018, ss.1-6

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● **Imaging the interactions between oral pathogens and probiotic lactic acid bacteria on the adhesion to human gingival fibroblast cells by confocal and fluorescein microscopy**

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● **Identification of Harmonic Current Contributions of Iron and Steel Plants Based on Time-Synchronized Field Measurements - Part I: at PCC**

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● **Medium Frequency Induction Melting Furnace as a Load on the Power System**

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