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Education Information

Doctorate, Yildiz Technical University, Fen Bilimleri Enstitüsü, Elektrik Makinaları Ve Güç Elektroniği (Dr), Turkey 2012 - 2018

Postgraduate, Yildiz Technical University, Fen Bilimleri Enstitüsü, Elektrik Makinaları Ve Güç Elektroniği (YI) (Tezli), Turkey 2011 - 2012

Undergraduate, Pamukkale University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 2005 - 2009

Dissertations

Doctorate, Gömülü mıknatıslı senkron makinaların analitik modellenmesi için yeni bir yaklaşım, Yildiz Technical University, Fen Bilimleri Enstitüsü, Elektrik Makinaları Ve Güç Elektroniği (Dr), 2018

Academic Titles / Tasks

Usak University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2019 - Continues

Research Assistant, Usak University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2017 - 2019

Research Assistant, Yildiz Technical University, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, 2011 - 2017

Research Assistant, University of Wisconsin - Madison, Mühendislik Fakültesi, Elektrik Ve Bilgisayar Mühendisliği, 2015 - 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- A Nonlinear q -Axis Inductance Modeling of a 12-Slot 10-Pole IPM Using Approximate Analytical Methods**
GÜRLEYEN H., Mese E.
IEEE Transactions on Energy Conversion, vol.35, no.2, pp.621-630, 2020 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- Comparison of Slot/Pole Topologies of Variable Flux Reluctance Generators for Aircraft Applications**
AYHAN U., GÜRLEYEN H., MEŞE E.

2022 IEEE Transportation Electrification Conference & Expo (ITEC), Anaheim, CA,, United States Of America, 15 June 2022

II. Torque Ripple Reduction for Low Pole Variable Flux Reluctance Machine

GÜRLEYEN H.

3rd IEEE Global Power, Energy and Communication Conference, GPECOM 2021, Virtual, Online, Turkey, 5 - 08 October 2021, pp.103-108

III. Dual-Channel Variable Flux Reluctance Generator Design for More Electric Aircraft

GÜRLEYEN H.

3rd IEEE Global Power, Energy and Communication Conference, GPECOM 2021, Virtual, Online, Turkey, 5 - 08 October 2021, pp.126-131

IV. Control of Variable Flux Reluctance Motor in Field Weakening Region

Catal M. S., GÜRLEYEN H., Mese E.

2021 International Aegean Conference on Electrical Machines and Power Electronics, ACEMP 2021 and 2021 International Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2021, Brasov, Romania, 2 - 03 September 2021, pp.175-180

V. Analysis of Magnetic Coupling Between Armature and Field Windings of VFRM

GÜRLEYEN H.

2021 IEEE International Magnetic Conference, INTERMAG 2021, Virtual, Online, France, 26 - 30 April 2021, vol.2021-April

VI. Nonlinear analytical model of an inductance considering saturation and temperature variation

GÜRLEYEN H., MEŞE E., Kim J. H., Şarhoğlu B.

2017 IEEE Energy Conversion Congress and Exposition (ECCE), Cincinnati, OH, USA, 1 - 05 October 2017

VII. D- and q-axis inductance calculation of IPMSM using approximate analytical model

GÜRLEYEN H., Palavicino P. C., MEŞE E., Şarhoğlu B.

2017 IEEE Transportation Electrification Conference and Expo (ITEC), Chicago, IL, USA, 22 - 24 June 2017

VIII. Reduced q axis nonlinear MEC model for single layer IPM

GÜRLEYEN H., MEŞE E.

2017 IEEE International Magnetics Conference (INTERMAG), Dublin, Ireland, 24 - 28 April 2017

Metrics

Publication: 9

Citation (Scopus): 10

H-Index (Scopus): 2