

دکتر حسین مددی

استاد

دانشکده: مهندسی برق



سوابق تحصیلی			
مقطع تحصیلی	سال اخذ مدرک	رشته و گرایش تحصیلی	دانشگاه
کارشناسی	۱۳۶۸	برق-قدرت	تبریز
کارشناسی ارشد	۱۳۷۲	برق-قدرت	تبریز
دکتری	۱۳۸۲	قدرت-الکترونیک قدرت و موتور درایو	UNB, Canada
فوق دکتری	۱۳۸۴	قدرت-الکترونیک قدرت و موتور درایو	UNB, Canada

اطلاعات استخدامی				
محل خدمت	عنوان سمت	نوع استخدام	نوع همکاری	پایه
دانشکده برق- دانشگاه صنعتی سهند تبریز	هیات علمی	رسمی قطعی	تمام وقت	۳۷

سوابق اجرایی

Manager of Advanced Power Electronics and Renewable Energy Research Center at SUT

Directing Manager of Knowledge based company (Sahand Tavan Ghostrar Khebreh), • some of our products including the following: 1- High Power IGBT Driver Boards (up to 200 - 300A) 2- Isolated Voltage Transducers (VT

Laboratory Manager: Electrical Machinery, Electrical Workshop

جوایز و تقدیر نامه ها

Top 2% most-cited scientists in the world “Based on scopus on Stanford University’s list, for long term and single year”, 2020, 2021, 2022, 2023

- .First rank award in Tabriz, Iran high schools
- .First rank award in Tabriz University, B.Sc
- .Post Doctoral Fellowship, UNB, Canada, 2003-2005
- .Selected Researcher of Electrical Engineering Dept., Iran, 2006
- .Selected Researcher of Electrical Engineering Dept., Iran, 2015
- Selected Researcher of SUT, 2016 □
- Best Researcher of SUT in Industrial Projects, 2018

Receiving three appreciations for Industry Project “Design and Construction of Three-Phase 50 KVA Regulated Power Supply with Variable Frequency, 0-400 .Hz,” Iran, 2011-2015

موضوعات تدریس تخصصی

- Power Electronics, for M.Sc. and Ph.D. students
- Advanced Power Electronics, for Ph.D. students
- Renewable Energy, for M.Sc. and Ph.D. students
- Electrical Machines, for Undergraduate students
- ,DSP based (DSP 2812,...) Control of Induction Motor drives, for M.Sc. and Ph.D. students
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- ,Electrical Circuits, for Undergraduate students
- Generalized Theory of Electrical Machines, for M.Sc. and Ph.D. students
- ,Electrical Installations, for Undergraduate students

زمینه های تدریس

الکترونیک قدرت

کاربرد میکروکنترلرها در الکترونیک قدرت

ماشین های الکتریکی

زبان تخصص برق

الکترونیک قدرت پیشرفته(خازن ها، درایوربرد های مدرن، ترانزیستورهای قدرت نسل جدید SiC, GaN ،

اثرات بارازیتی سیم ها در مدارهای الکترونیک قدرت، منابع تغذیه کلید زنی و.....)

همایش ها و کنفرانس ها

IPEMC 2016, ECCE Asia, China, Hefei, 2016, May 22-2

عضویت در هیات تحریریه مجلات علمی و پژوهشی

Associate Editor of "Helyion, Elsevier

"Associate Editor of "Journal of Non-linear Systems in Electrical Engineering

عضویت در انجمن های علمی

IEEE Member

مقالات در همایش ها

1. H. Madadi Kojabadi, L. Chang, Sensorless PMSM drives with MRAS based adaptive speed estimator, PESCC2006, سیول, 2006.
2. H. Madadi Kojabadi, I. Gadoura, M. Ghribi, IMPLEMENTATION OF DIFFERENT CURRENT-CONTROLLED PWM STRATEGIES FOR VSI, IFAC, 2005. Pragh, Czech Republic, براگ, 2005.
3. H. Madadi Kojabadi, I. Gadoura, M. Ghribi, A simple digital current control for Grid-connected inverters, Germany, 2005, EPE2005, Germany, المان, 2005.
4. H. Madadi Kojabadi, L. Chang, R.. Doriaswami, "Novel Adaptive Observer for Very Fast Estimation of Stator Resistance in Sensorless Induction Motor Drives, IEEE Annual Power Electronics Specialists Conference, 2003.
5. H. Madadi Kojabadi, and L. Chang, Model reference adaptive system pseudoreduced – order flux observer for very low speed and zero speed estimation in sensorless induction motor drives, IEEE Annual Power Electronics Specialists Conference, استرالیا, 2002.

مقالات در نشریات

1. Mehdi Fallah a, Hossein Madadi Kojabadi a, Ehsan Pashajavid, Compensation of Distortions in the DC-AC Power System Using Modified Vector Control Method-Based VSC Station, Control Eng., Control Eng. Practic, 2021.
2. Mehdi Fallah, Javad Modarresi, Hossein Madadi Kojabadi, Liuchen Chang, Josep M. Guerrero, A modified Indirect Extraction Method for a Single-Phase Shunt Active Power Filter with Smaller DC-link Capacitor Size, Sustainable Energy Technologies and Assessments, 2021.
3. Mohammad Ghaffarpour, Reza Ebrahimi, Hossein Madadi Kojabadi, Liuchen Chang, Josep M. Guerrero, Novel high voltage gain dc–dc converter with dynamic analysis, IET Power Electronics, 2021.
4. H. Fathi, H. Madadi Kojabadi, New control method for VSC-MTDC Stations in the abnormal

- conditions of power system, Control Eng. Practic, 2020
- Mana Hoseinzadeh Lish, Reza Ebrahimi, Hossein Madadi Kojabadi, Josep M. Guerrero, .42 .5
Naser Nourani Esfetanaj, Novel high gain DC–DC converter based on coupled inductor and diode
.capacitor techniques with leakage inductance effects, IET Power Electronics, 2020
- H. Madadi Kojabadi, R. Ebrahimi, ESmaeili, High boost transformer-based Z-source inverter .6
.under continuous input current profile, IET Power Electronics, 2019
- Hamed Jafari Kaleybar a, Hossein Madadi Kojabadi a, Federica Foiadelli b, Morris Brenna .36 .7
b, Frede Blaabjerg, Model Analysis and Real-Time Implementation of Model Predictive Control for
Railway Power Flow Controller, International Journal of Electrical Power and Energy
Systems,, 2019
- Reza Ebrahimi, Hossein Madadi Kojabadi, Liuchen Chang, Frede Blaabjerg, Coupled- .39 .8
.inductor-based high step-up DC–DC converter, IET Power Electronics, 2019
- M. Abarzadeh, H. Madadi Kojabadi, “ A New Boost Switched-Capacitor Multilevel Converter .9
.with Reduced Circuit Devices, IEEE Transaction on Power Electronics, 2018
- H. Fathi, H. Madadi Kojabadi, Enhanced-boost Z-source inverters with switched Z- .10
.impedance, IEEE Transaction on Indus. Electronics, 2018
- H. Madadi, H. Fathi, F. Blubjerg, Experimental and Theoretical Analysis of Trans-Z-Source .11
.Inverters with Leakage Inductance Effects, IEEE Transaction on Indus. Electronics, 2017
- M. Abarzadeh, H. Madadi Kojabadi, Enhanced Static ground Power unit based on flying .12
capacitor based h-bridge hybrid active-neutral-point- clamped converter, IET Power
Electronics, 2016
- R. Barzegharkhoo, H. Madadi Kojabadi, E. zamiry, N. Vosoughi, L. Chang, Cascaded Multilevel .13
Inverter Using Series Connection of Novel Capacitor-Based Units with Minimum Switch Count, IET
Power Electronics, 2016
- R. Barzegharkhoo, , E. zamiry, N. Vosoughi, H. Madadi Kojabadi, L. Chang, Cascaded Modular .14
Multilevel Inverter Topology Using a Novel Basic Unit with Less Number of Power Electronic
Elements, Journal of Power Electronics, 2016
- R. Barzeghar, H. Madadi Kojabadi, E. Zamiri, N. Vosoughi, A Modified Static Ground Power .15
Unit Based On Novel Modular Active Neutral Point Clamped Converter, IEEE Transaction on
Indus. Application, 2016
- M. Abarzadeh, H. Madadi Kojabadi, A Static Ground Power Unit Based on Improved Hybrid .16
.Active-Neutral-Point-Clamped Converter, IEEE Transaction on Indus. Electronics, 2016
- R. Barzeghar, H. Madadi Kojabadi, E. Zamiri, N. Vosoughi, Generalized Structure for a Single .17
Phase Switched-Capacitor Multilevel Inverter Using a New Multiple Dc Link Producer with
.Reduced Number of Switches, IEEE Transaction on Power Electronics, 2016
- H. Madadi Kojabadi, L. Chang, and T. Boutot, A Novel DSP-based Current-Controlled PWM .3 .18
.Strategy for Single Phase Grid Connected Inverters”, IEEE Transaction on Power Electronics, 2006
- H. Madadi Kojabadi, L. Chang, and R. Doraiswami, A MRAS-Based Pseudoreduced Order Flux .19
.Observer for Sensorless Induction Motor Drives, IEEE Transaction on Power Electronics, 2005
- H. Madadi Kojabadi, L. Chang, and T. Boutot, Development of a Novel Wind Turbine .3 .20
Simulator for Wind Energy Conversion Systems Using an Inverter Controlled Induction Motor, IEEE
Transaction on Energy Conversion, pp. 547-552, 2004

پایان نامه ها

- A Modified Static Ground Power Unit Based on Novel Modular Active Neutral Point Clamped .1
Converter, Ph.D. thesis, ۲۰۱۵
- High performance direct instantaneous power control of PWM rectifiers, Ph.D. thesis (Amir .۲
Kabir University, Tehran, Iran), ۲۰۱۰
- Rail way harmonics compensation and assessment, Ph.D. thesis, ۲۰۱۷ • Active power filter • .۳

