

# 电机与控制学报

第 21 卷 第 10 期 (总第 156 期) 2017 年 10 月

## 目 次

基于分时电价的电动汽车群有序充电策略研究 .....	刘志珍, 杨 勇, 屈东明, 王 建, 黑 桐 ( 1 )
一种模块化级联 H 桥构造的三相一单相同相牵引供电系统 .....	黄小红, 李群湛, 舒泽亮 ( 8 )
基于改进 DFT 信号重构的基波正序有功和无功电流检测 .....	李锦彬, 陈 冲 ( 16 )
永磁同步电机非线性黄金分割自适应转速控制 .....	王 永, 窦晓华, 方 浩, 罗 胜 ( 23 )
电动汽车用双层永磁体 IPMSM 优化分析 .....	刘细平, 刘章麒, 李 亚, 凌 涛, 任志斌 ( 30 )
改进的无功功率模型参考自适应异步电机转速辨识 .....	车海军, 王亮亮, 霍丽娇, 崔慧慧, 杨景明 ( 40 )
某新型隐极同步电动机流场计算与分析 .....	路义萍, 王玉萍, 孙雪梅 ( 47 )
永磁游标直线电机磁场解析计算 .....	王明杰, 李彦彦, 焦留成, 杨存祥, 李从善 ( 54 )
基于有源阻尼的多逆变器并网谐振抑制 .....	何国锋, 徐德鸿 ( 62 )
内联观测电励磁同步电机功率因数控制 .....	尚 敬, 南永辉, 刘 丽, 年晓红 ( 69 )
磁链微分反馈的双馈风力发电机无速度传感器控制 .....	张文娟, 马浩森, 高 蕊 ( 77 )
基于 iSIGHT 平台的开关电源电热耦合仿真方法 .....	周月阁, 郑会明, 卢 璐, 刘守文, 刘 闯 ( 85 )
磁力耦合联轴器三维传递转矩及特性参数分析 .....	朱姿娜, 孟 焯 ( 94 )
磁悬浮振动测试系统信号分析及振动信号的提取 .....	江 东, 周卫宏, 孔德善, 刘绪坤 ( 102 )
一类不确定非线性系统的有限时间输出调节方法 .....	刘海涛, 田雪虹, 俞国燕, 王 贵, 刘焕宇 ( 108 )
伺服系统机械谐振抑制的自适应模糊控制方法 .....	杜仁慧, 陶春荣, 张 伟, 张 杰, 孙晋先 ( 116 )

期刊基本参数: CN 23-1408/TM \* 1997 \* m \* A4 \* 124 \* zh \* P \* ¥15.00 \* 2000 \* 16 \* 2017-10 \* n

责任编辑: 刘素菊

英文审校: 姜毓锋 郎 非

# ELECTRIC MACHINES AND CONTROL

Vol. 21 No. 10 Oct. 2017

## CONTENTS

Coordinated charging strategy for electric vehicle aggregator based on time-of-use price .....	<i>LIU Zhi-zhen, YANG Yong, QU Dong-ming, WANG Jian, HEI Tong</i> ( 1 )
Three-phase to single phase co-phase traction power supply system based on modular multilevel cascaded H-bridge .....	<i>HUANG Xiao-hong, LI Qun-zhan, SHU Ze-liang</i> ( 8 )
Detection method of fundamental positive active and reactive current based on signal reconstruction with improved DFT .....	<i>LI Jin-bin, CHEN Chong</i> ( 16 )
Nonlinear golden-section adaptive speed control of permanent magnet synchronous motor .....	<i>WANG Yong, DOU Xiao-hua, FANG Hao, LUO Sheng</i> ( 23 )
Optimization and analysis of IPMSM with double-layer permanent magnet used in electric vehicle .....	<i>LIU Xi-ping, LIU Zhang-qi, LI Ya, LING Tao, REN Zhi-bin</i> ( 30 )
Improved reactive power model reference adaptive speed identificatin applying to induction motor .....	<i>CHE Hai-jun, WANG Liang-liang, HUO Li-jiao, CUI Hui-hui, YANG Jing-ming</i> ( 40 )
Calculation and analysis of fluid flow field in non-salient pole synchronous motors .....	<i>LU Yi-ping, WANG Yu-ping, SUN Xue-mei</i> ( 47 )
Analytical magnetic field calculation of linear permanent magnet vernier motor .....	<i>WANG Ming-jie, LI Yan-yan, JIAO Liu-cheng, YANG Cun-xiang, LI Cong-shan</i> ( 54 )
Resonance suppression for grid-connected multi-inverter based on active damping method .....	<i>HE Guo-feng, XU De-hong</i> ( 62 )
Power factor control of EESM based on interconnected observer .....	<i>SHANG Jing, NAN Yong-hui, LIU Li, NIAN Xiao-hong</i> ( 69 )
Speed sensorless control of doubly-fed induction generator based on flux differential feedback .....	<i>ZHANG Wen-juan, MA Hao-miao, GAO Rui</i> ( 77 )
Electro thermal coupling modeling for SMPS based on iSIGHT platform .....	<i>ZHOU Yue-ge, ZHENG Hui-ming, LU Lu, LIU Shou-wen, LIU Chuang</i> ( 85 )
3D torque calculation of magnetic coupling and its characteristic parameters analysis .....	<i>ZHU Zi-na, MENG Zhuo</i> ( 94 )
Maglev vibration test system signals analyses and vibration signals extraction .....	<i>JIANG Dong, ZHOU Wei-hong, KONG De-shan, LIU Xu-kun</i> ( 102 )
Finite-time output regulation method for a class of uncertain nonlinear systems .....	<i>LIU Hai-tao, TIAN Xue-hong, YU Guo-yan, WANG Gui, LIU Huan-lao</i> ( 108 )
Adaptive fuzzy control method for mechanical resonance suppression of servo systems .....	<i>DU Ren-hui, TAO Chun-rong, ZHANG Wei, ZHANG Jie, SUN Jin-xian</i> ( 116 )

**Serial parameters:** CN 23-1408 / TM \* 1997 \* m \* A4 \* 124 \* zh \* P \* ¥15.00 \* 2000 \* 16 \* 2017-10 \* n

**Responsible Editor:** *LIU Su-ju* **English Examiner:** *JIANG Yu-feng LANG Fei*