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陈哲

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基本信息 The basic information

姓名: 陈哲

学院: 自动化学院

学历: 博士研究生毕业

学位: 工学博士

职称: 副教授

职务:

学科: 电气工程-电机与电器



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工作经历 Work Experience

2017/02-至今, 西北工业大学, 自动化学院电气工程系, 副教授

2015/10-2016/12, 慕尼黑工业大学大学, 电机驱动系统及电力电子研究所, 科研助理, 合作导师: Ralph Kennel

2011/1-2011/7, 博世力士乐 (西安) 电子传动与控制有限公司, 硬件研发工程师

教育经历 Education Experience

2011/10-2016/12, 慕尼黑工业大学, 电机驱动系统及电力电子研究所, 博士, 导师: Ralph Kennel

2008/09-2011/03, 西北工业大学, 电气工程, 硕士

2004/09-2008/07, 西北工业大学, 电气工程, 本科

教育教学 Education And Teaching

春季学期, 本科专业必修课, 全英文授课《工程电磁场》, 40学时

秋季学期, 本科专业选修课, 《电动汽车原理及应用前景》, 16学时

招生信息 Admission Information

研究方向:

目前的研究方向主要是永磁同步电机的无位置传感器控制和模型预测控制等。每年招收硕士研究生2-3人。

有兴趣的同学可以通过邮件咨询, zhe.chen@nwpu.edu.cn (mailto:zhe.chen@nwpu.edu.cn)

荣誉获奖 Awards Information

获2019年第十三届中国高校电力电子与电力传动学术年会最佳论文奖

入选2017年西安市科协青年人才托举计划

获慕尼黑工业大学优秀博士论文

科学研究 Scientific Research

主持国家自然科学基金： 1项（经费：24万）

主持陕西省自然科学基金：1项（经费：3万）

主持校基础研究基金： 1项（经费：20万）

主持德国国家科学基金： 1项（经费，136万）

主持企业横向课题： 2项（经费，共53万）

学术成果 Academic Achievements

Z. Chen, H. Zhang, W. Tu, G. Luo, D. Manoharan and R. Kennel, "Sensorless Control for Permanent Magnet Synchronous Motor in Rail Transit Application Using Segmented Synchronous Modulation," in *IEEE Access*, vol. 7, pp. 76669-76679, 2019.

Z. Chen, F. Wang, G. Luo, Z. Zhang and R. Kennel, "Secondary Saliency Tracking-Based Sensorless Control for Concentrated Winding SPMSM," *IEEE Trans. Ind. Informatics*, vol. 12, no. 1, pp. 201-210, Feb. 2016.

Z. Chen, J. Gao, F. Wang, Z. Ma, Z. Zhang and R. Kennel, "Sensorless Control for SPMSM With Concentrated Windings Using Multisignal Injection Method," *IEEE Trans. Ind. Electron.*, vol.61, no.12, pp.6624,6634, Dec. 2014.

陈哲,薛钊,方海伊,骆光照.基于自适应逆控制的永磁同步电机调速系统[J],西北工业大学学报,已录用,2019.

Z. Chen, H. Zhang and Z. Zhang, "An EEMF-based Sensorless control of IPMSM Drives with Asymmetric Space Vector Modulation," *ICEMS 2019*, Aug.11-14, Harbin, China, 2019.

Z. Chen, W. Tu, L. Yan and G. Luo, "Dynamic Cost Function Design of Finite- Control-Set Model Predictive Current Control for PMSM Drives," PRECEDE 2019 June1-2, Quanzhou, Fujian, China, 2019.

Z. Chen, H. Zhang, W. Tu, B. Tan and G. Luo, "FPGA Implementation of an Arbitrary Injection based Sensorless Control for PMSM," 2018 IEEE Energy Conversion Congress and Exposition (ECCE), Portland, OR, 2018, pp. 1741-1747.

Z. Chen, H. Zhang and G. Luo, "FPGA Based Hybrid Sensorless Controller Design for PMSM Drive System," 2018 21st International Conference on Electrical Machines and Systems (ICEMS), Jeju, 2018, pp. 1574-1579.

Z. Chen, Z. Zhang, R. Kennel and G. Luo, "Hybrid sensorless control for SPMSM With multiple saliencies," IECON 2015 - 41st Annual Conference of the IEEE Industrial Electronics Society, Yokohama, 2015, pp. 1188-1193.

F. Wang, S. A. Davari, **Z. Chen**, Z. Zhang, J. Rodríguez (<http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=>) and R. Kennel (<http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=>), "Finite Control Set Model Predictive Torque Control of Induction Machine with a Robust Adaptive Observer," IEEE Trans. Ind. Electron., no. 99, p. 1, 2016.

G. Luo, R. Zhang, **Z. Chen**, W. Tu, S. Zhang and R. Kennel, "A Novel Nonlinear Modeling Method for Permanent-Magnet Synchronous Motors," IEEE Trans. Ind. Electron., vol. 63, no. 10, pp. 6490-6498, Oct. 2016.

C. Wu, **Z. Chen**, R. Qi and R. Kennel, "Decoupling of Secondary Saliencies in Sensorless PMSM Drives Using Repetitive Control in an Angle Domain," J. Power Electron., Vol. 16, No. 4, pp. 1375-1386, July 2016.

Z. Zhang, H. Xu, M. Xue, **Z. Chen**, T. Sun, R. Kennel, C. M. Hackl, "Predictive Control With Novel Virtual-Flux Estimation for Back-to-Back Power Converters," IEEE Trans. Ind. Electron., vol. 62, no. 5, pp. 2823-2834, May 2015.

H. Zhang, W. Liu, **Z. Chen**, S. Mao, T. Meng, J. Peng, N. Jiao "A Time-Delay Compensation Method for IPMSM Hybrid Sensorless Drives in Rail Transit Applications," in *IEEE Transactions on Industrial Electronics*, vol. 66, no. 9, pp. 6715-6726, Sept. 2019.

H. Zhang, W. Liu, **Z. Chen**, G. Luo, J. Liu and D. Zhao, "Asymmetric Space Vector Modulation for PMSM Sensorless Drives Based on Square-Wave Voltage-Injection Method," in *IEEE Transactions on Industry Applications*, vol. 54, no. 2, pp. 1425-1436, March-April 2018.

W. Tu, G. Luo, **Z. Chen**, C. Liu and L. Cui, "FPGA Implementation of Predictive Cascaded Speed and Current Control of PMSM Drives With Two-time Scale Optimization," in *IEEE Transactions on Industrial Informatics*. doi: 10.1109/TII.2019.2897074

W. Tu, G. Luo, **Z. Chen**, L. Cui and R. Kennel, "Predictive Cascaded Speed and Current Control for PMSM Drives with Multi-time Scale Optimization," in *IEEE Transactions on Power Electronics*.doi: 10.1109/TPEL.2019.2897746

学术文献 Academic Literature

[English Version \(/en/chenzhe.html\)](#)

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