郭迪 简历

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教育背景：

- 2009/10 - 2011/10，美国 University of Washington， 电子工程系， Visiting Scientist
- 2008/09 - 2012/06，厦门大学， 通信与信息系统， 工学博士（提前攻博）
- 2006/09 - 2008/07，厦门大学， 通信与信息系统， 工学硕士研究生
- 2001/09 - 2005/07，厦门大学， 通信工程， 工学学士

工作经历：

- 2015/07 - 至今， 厦门理工学院，计算机与信息工程学院，副教授
- 2012/05 - 2015/07， 厦门理工学院，计算机与信息工程学院，讲师
-

社会兼职：

- IEEE 会员，中国计算机学会会员

研究方向：无线传感网，无线通信，信号与图像处理

讲授课程：

- 无线传感网络
- 通信原理
- 计算机组成原理
- 物联网临就业培训

科研项目：

- 国家自然科学基金青年项目“基于拓扑结构的无线传感网多模数据稀疏修复”（61302174），2014.01-2016.12，负责人
- 国家自然科学基金青年项目“空间编码可控的快速 MRI 高分辨率图像稀疏重建”（61201045），2013.01-2015.12，第 4 位
- 福建省自然科学基金项目“基于 X 线光谱图像的食源性有害物质的快速检测算法研究”（2014J01256），2014.01-2016.12，第 3 位

教学项目：

- 厦门理工学院 2014-2015 学年网络课程建设项目《计算机组成原理》，负责人

发表论文：

[1] **Di Guo**, Jingwen Yan, Xiaobo Qu. “High quality multi-focus image fusion using self-similarity and depth information,” ***Optics Communications***, 338: 138–144, 2015. **(SCI&EI, JCR3, IF 1.54)**

[2] **Di Guo**, Xiaobo Qu, Meng Wu, Keshou Wu. “A modified iterative alternating direction minimization algorithm for impulse noise removal in images,” ***Journal of Applied Mathematics***, Vol. 2014, Article ID 595782, 12 pages, 2014. (

pp.2485-2495, 2012. (**SCI&EI, JCR3, IF 1.47)**

[4] **Di Guo**, Xiaobo Qu, Lianfen Huang, Yan Yao. "Optimized local superposition in wireless sensor networks with t-average-mutual-coherence," ***Progress in Electromagnetics Research***, 122, pp. 389-411, 2012. (**SCI&EI, JCR2, IF 3.76**)

[5] **Di Guo**, Xiaobo Qu, Lianfen Huang, Yan Yao. "Sparsity-based spatial interpolation in wireless sensor networks, ***Sensors***," vol. 11, no. 3, pp. 2385-2407, 2011. (**SCI, JCR2, IF 1.77**)

[6] **Di Guo**, Xiaobo Qu, Xiaofeng Du, Keshou Wu, and Xuhui Chen. "Salt and Pepper noise removal with noise detection and a patch-based sparse representation," ***Advances in Multimedia***, vol. 2014, Article ID 682747, 14 pages, 2014. **(EI)**

[7] **Di Guo,** Xiaobo Qu, Lianfen Huang, Yan Yao, Zicheng Liu, Ming-Ting Sun. "Sparsity-based online missing sensor data recovery," ***2012 IEEE Int. Symp. Circuits and Systems***, May 20, 2012. (**Oral presentation**, win **student grant KRW550,000**)

[8] **Di Guo,** Xiaobo Qu, Mingbo Xiao, Yan Yao. "Comparative analysis on transform and reconstruction of compressed sensing in sensor networks," in ***Int. Conf. Commun. and Mobile Computing***, Jan. 6-8 2009, Kunming, China, pp.441-445. **(EI)**

[9] Xiaobo Qu, **Di Guo**, Bende Ning, Shuhui Cai, Zhong Chen. "Undersampled MRI reconstruction with patch-based directional wavelets," ***Magnetic Resonance Imaging***, 30(7):964-977, 2012. **(SCI, JCR4, IF 2.21)**

[10] Xiaobo Qu, **Di Guo**, Xue Cao, Shuhui Cai and Zhong Chen. "Reconstruction of self-sparse 2D NMR spectra from undersampled data in indirect dimension," ***Sensors***, vol. 11, no. 9, pp. 8888-8909, 2011. (**SCI, JCR2, IF 1.77**)

[11] Lei Liu, Jingwen Yan, **Di Guo**, Yunsong Liu, Xiaobo Qu*. Undersampled hyperspectral image reconstruction based on surfacelet transform, ***Journal of Sensors***, DOI:10.1155/2014/256391, 2014. (**SCI**)

[12] Bende Ning, Xiaobo Qu*, **Di Guo**, Changwei Hu, Zhong Chen*. "Magnetic resonance image reconstruction using trained geometric directions in 2D redundant wavelets domain and non-convex optimization," ***Magnetic Resonance Imaging***, 31(9):1611-1622, 2013. **(SCI, JCR4, IF 2.06)**

[13] Changwei Hu, Xiaobo Qu, **Di Guo**, Lijun Bao, Zhong Chen. "Wavelet-based edge correlation incorporated iterative reconstruction for undersampled MRI," ***Magnetic Resonance Imaging***, vol.29, no.7, pp. 907-915, 2011. **(SCI, JCR4, IF 2.21)**

[14] Xiaobo Qu, Xue Cao, **Di Guo**, Changwei Hu and Zhong Chen. "Combined sparsifying transforms for compressed sensing MRI," ***Electronics Letters***, vol.46, no.2, pp.121-123, 2010. **(SCI&EI, JCR3, IF 1.07)**

[15] Xiaobo Qu, Weiru Zhang, **Di Guo**, Congbo Cai, Shuhui Cai, Zhong Chen. "Iterative thresholding compressed sensing MRI based on contourlet transform," ***Inverse Problems in Science and Engineering***, vol.18, no.6, pp.737-758, 2010. **(SCI&EI, JCR4, IF 0.69)**

[16] Xiaobo Qu*, Lei Li, **Di Guo**. Multi-focus image fusion with structure-driven adaptive regions, The 6th International Conference on Internet Multimedia Computing and Service-ICIMCS'14, pp. 86-89, Xiamen, China, 10th -12th, July, 2014. (**EI**)

[17] Xiaobo Qu, Yingkun Hou, Fan Lam, **Di Guo**, Jianhui Zhong, Zhong Chen. "Magnetic resonance image reconstruction from undersampled measurements using a patch-based nonlocal operator," ***Medical Image Analysis***, vol. 18, no. 6, pp. 843-856, 2014. (**SCI&EI, JCR1, 3-Year IF 4.09**)

[18] Qiyue Li, Xiaobo Qu, Yunsong Liu, **Di Guo**, Zongying Lai, Jing Ye, Zhong Chen. "Accelerating patch-based directional wavelets with multicore parallel computing in compressed sensing MRI,"

Magnetic Resonance Imaging, DOI: 10.1016/j.mri.2015.01.014, **in press**, 2015. **(SCI, JCR4, IF 2.06)**

[19] Yunsong Liu, Jian-feng Cai, Zhifang Zhan,**Di Guo**,Jing Ye,Zhong Chen, Xiaobo Qu*****. Balanced sparse model for tight frames in compressed sensing magnetic resonance imaging, ***PLoS ONE***, 10(4): e0119584, 2015. (**SCI, JCR 2, IF 3.53**)

[20] Zongying Lai, Xiaobo Qu*****, Yunsong Liu, **Di Guo**, Jing Ye, Zhifang Zhan, Zhong Chen*. Image reconstruction of compressed sensing MRI using graph-based redundant wavelet transform, ***Medical Image Analysis***, accepted, 2015. (**SCI&EI, JCR1, 3-Year IF 4.09**)

[21] Qiyue Li, Xiaobo Qu*, Yunsong Liu, **Di Guo**, Jing Ye, Zhifang Zhan, Zhong Chen*. "Parallel computing of patch-based nonlocal operator and its application in compressed sensing MRI," ***Computational and Mathematical Methods in Medicine***, vol. 2014, Article ID 257435, 6 pages, 2014. doi:10.1155/2014/257435. (**SCI, IF 0.791**)

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[23] Lei Liu, Jingwen Yan, Xianwei Zheng, Hong Peng, **Di Guo**, Xiaobo Qu*. Karhunen-Loève transform for compressive sampling in hyperspectral imaging, ***Optical Engineering***, 54(1), 014106 (Jan 14, 2015). doi: 10.1117/1.OE.54.1.014106. (**SCI&EI, JCR 4, 2013 IF 0.96**)

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[25] 章书勤,**郭迪**,肖明波.无线传感器网络数据传输及融合技术,现代电子技术，2009，305（18）：188-191.

发明专利：

[1] 屈小波，颜志煜，陈颖，庄孝星，**郭迪**，陈忠. 一种射频脉冲控制的压缩感知磁共振成像方法，中国发明专利，授权号：ZL201210534894.3，申请日：2012 年 12 月 12 日，授权日：2015 年 1 月 21 日.

[2] 屈小波，沈前进，李淇越，**郭迪**，陈忠. 面向医学图像的多线程并行计算方法，中国发明专利，公开号：CN103631568A, 2013.

[3] 李桂森，陈旭辉，吴克寿，胡建强，谢荣生，**郭迪**，洪朝群，崔建峰，陈仁，温玄. 一种基于方向的城市车载自组织网络广播方法，中国发明专利，公开号： CN103347251A，2013.

[4] 屈小波，占志芳，刘运松，**郭迪**，陈忠. 一种磁共振图像的迭代重建方法, 2015 年 4 月，中国发明专利，申请号：2015101810180.0.

[5] 屈小波，应佳熙，**郭迪**，陈忠. 一种高维核磁共振时域信号补全方法, 2015 年 5 月，中国发明专利，申请号：201510235929.7.

相关获奖

- 第 25 届 IEEE 电路与系统年会（ISCAS 2012）学生资助奖，2012.05
- IBM 中国优秀学生奖学金，2012.12
- 第四届全国研究生数学建模竞赛三等奖，2007.12
- 厦门市留学人员，2012.10
- 厦门大学 2011 年度研究生科研成果奖三等奖，2012.05
- 第四届京信杯《无线改变生活》应用方案设计大奖赛二等奖，2009.06