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学习经历 (学士、硕士、博士):

1999.09 - 2003.07 曲阜师范大学, 应用数学, 学士
2003.09 - 2005.07 中山大学, 计算数学, 硕士
2005.09 - 2008.07 南方医科大学, 生物医学工程, 博士

工作经历:

2008.12 - 2011.12 南方医科大学生物医学工程学院, 讲师
2011.12 - 至今 南方医科大学生物医学工程学院, 副教授
2013.04 - 2013.12 美国宾夕法尼亚大学, 访问学者

研究方向:

医学图像处理

主要获奖情况:

广州市珠江科技新星, 2011年

广东省科学技术奖一等奖, 2011年

主要科研课题:

1. 国家自然科学基金青年基金项目“基于马尔可夫随机场模型与非局部先验的肝脏图像配准”, 项目批准号: 31000450
2. 广州市珠江科技新星专项项目“高维医学图像分析系统的研制”, 项目编号: 2012J2200041
3. 广东省自然科学基金项目“多图谱水平集方法研究及关键脑结构图像分割”, 项目编号: 2014A030313316
4. 广东省自然科学基金项目“基于高阶张量低秩分解的肝脏DCE-MRI配准方法研究”, 项目编号: 2016A030313574

代表性论文:

1. Zhentai Lu, Wei Yang, Minghui Zhang, Qianjin Feng, Wufan Chen, Robust medical image registration based on phase congruency and regional mutual information, *The Imaging Science Journal*, 2013, 61(5): 458-466 (SCI)
2. Zhentai Lu, Qianjin Feng, Wei Yang, Wufan Chen, Hybrid rigid and non-rigid registration algorithm for alignment of intra-subject thoracic and abdominal images, *The Imaging Science Journal*, 2011, 59(3): 127-133 (SCI)
3. Juan Zhang, Zhentai Lu*, QianJin Feng, WuFan Chen, Intensity based image registration by minimizing exponential function weighted residual complexity, *Computers in Biology and Medicine*, 2013, 43: 1484-1496 (SCI)
4. Qian Zheng, Zhentai Lu*, Wei Yang, Minghui Zhang, Qianjin Feng*, Wufan Chen, A robust medical image segmentation method using KL distance and local neighborhood information. *Computers in Biology and Medicine*, 2013, 43(5): 459-470 (SCI)
5. Qian Zheng, Zhentai Lu*, Qianjin Feng, Jianhua Ma, Wei Yang, Wufan Chen*, Adaptive Segmentation of Vertebral Bodies from Sagittal MR Images Based on Local Spatial Information and Gaussian Weighted Chi-Square Distance, *Journal of Digital Imaging*, 2013, 26(3): 578-593 (SCI)
6. Zhentai Lu, Wei Yang, Minghui Zhang, Robust medical image elastic registration using global optimization strategy in frequency domain, *The Imaging Science Journal*, 2013, 62(1): 42-47 (SCI)
7. Wei Yang, Zhentai Lu, Mei Yu, Meiyuan Huang, Qianjin Feng, Wufan Chen, Content-Based Retrieval of Focal Liver Lesions Using Bag-of-Visual-Words Representations of Single- and Multiphase Contrast-Enhanced CT Images. *Journal of Digital Imaging*, 2012, 25: 708-719 (SCI)
8. Wei Yang, Qianjin Feng, Mei Yu, Zhentai Lu, Yang Gao, Yikai Xu, Wufan Chen. Content-based retrieval of brain tumor in contrast-enhanced MRI images using tumor margin information and learned distance metric, *Medical Physics*, 2012, 39(11): 6929-6942 (SCI)
9. Meiyuan Huang, Wei Yang, Mei Yu, Zhentai Lu, Qianjin Feng, Wufan Chen. Retrieval of brain tumors with region-specific bag-of-visual-words representations in contrast-enhanced MRI images, *Computational and Mathematical Methods in Medicine*, 2012, Article ID 280538. (SCI)
10. 卢振泰, 郑倩, 冯衍秋, 刘艳杰, 冯前进, 陈武凡, 基于熵和局部邻域信息的高斯约束CV模型, *计算机学报*, 2013, 36(5): 1076-1085 (EI)
11. 刘燕杰, 卢振泰, 冯前进, 陈武凡, 基于KL距离和局部邻域信息的CV模型, *电子学报*, 2011, 39(6): 1447-1451 (SCI, EI)
12. 郑倩, 卢振泰*, 陈超, 冯前进, 陈武凡, 基于邻域信息和高斯加权卡方距离的脊椎MR图像分割, *中国生物医学工程学报*, 2011, 30(3): 357-362.
13. Zhentai Lu, Chunming Li, Qianjin Feng, Wufan Chen, Christos Davatzikos, A Variational Level Set Framework for Label Fusion in Multi-Atlas Segmentation, *MICCAI 2013 Challenge Workshop on*

Segmentation: Algorithms, Theory and Applications, SEP. 22-26, 2013, NAGOYA, Japan.

14. Zhentai Lu, Qian Zheng, Wei Yang, Qianjin Feng, Wufan Chen, Adaptive Image Segmentation Based on Local Neighborhood Information and Gaussian Weighted Chi-Square Distance, 2012 International Symposium on Biomedical Imaging, May 2-5, 2012, 1240-1243, Barcelona, Spain (EI)

15. Qian Zheng, Zhentai Lu*, Minghui Zhang, Qianjin Feng, Wufan Chen. Gaussian regularizing CV model using entropy and local neighborhood information. World Congress on Medical Physics and Biomedical Engineering, May 26-31, 2012, 1832-1835, Beijing, China (EI)

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