

陈武凡

作者：来源：阅读量：6609 发布时间：2017-06-27 21:24:51



姓名：陈武凡

职称：二级教授

联系邮箱：chenwf@fimmu.com

联系电话：020-61648286

学习经历（学士、硕士）：

1972.01 - 1975.12 北京航空航天大学 本科

1978.09 - 1981.05 北京航空航天大学 硕士研究生

工作经历：

1976.01 - 1978.09 株洲南方动力公司导弹设计所 助理工程师

1981.05 - 1987.03 国防科技大学航天系 讲师

1987.03 - 2004.07 第一军医大学 教授/博导/主任

2004.08 - 2014.07 南方医科大学生物医学工程学院 教授/博导/院长

2007.06 - 今 电子科技大学医学成像中心 特聘教授/主任

2009.12 - 今 南方医科大学医学成像科学研究院/院长

研究方向:

陈武凡教授主要从事生物医学影像研究。目前研究集中于以下三个方向: (1) 高分辨医学成像技术; (2) 高精度医学图像分析; (3) 高质量医学图像处理。

主要学术任职:

中国生物医学工程学会 副理事长
中国图像图形学会 副理事长/监事长
教育部生物医学工程教指委 副主任委员
国家科技计划医疗器械专项组 组长
IEEE Senior member

主要获奖情况:

科研奖励

- 1、 国家技术发明二等奖, 第一完成人, 2007。
- 2、 教育部科学技术一等奖, 第一完成人, 2005。
- 3、 广东省科学技术一等奖, 第一完成人, 2011年。
- 4、 丁颖科技奖, 2010。
- 5、 广东省科学技术二等奖, 第一完成人, 2016。
- 6、 广东省科学技术二等奖, 第一完成人, 2008。

教学奖励

- 1、 国家教学名师
- 2、 国家教学成果二等奖, 第一完成人, 2014。
- 3、 广东省教学成果一等奖, 第一完成人, 2014。

主要科研课题:

- 1、 国家重点基础研究发展计划(973计划), 2010CB732500, 现代医学成像与高维图像分析关键科学问题研究, 2010.01 -2014.12, 2592万元, 1作;
- 2、 国家自然科学基金重点项目, 30730036, 基于医学图像模糊内容检索的关键技术研究, 2008.01-2011.12, 155万元, 1作;
- 3、 国家重大科学仪器设备开发专项, 2011YQ030114, 小动物多模态分子影像重大科研仪器及关键技术研究, 2011.10-2016.09, 300万元, 1作;
- 4、 国家重点基础研究发展计划(973计划), 2003CB716100, 重要临床医学信息处理的关键科学问题研究, 2004.01-2008.12, 2200万元, 1作。
- 5、 国家自然科学基金面上项目, 61471188, “[基于多模态图像联合特征的前列腺肿瘤图像分割新方法研究](#)”, 2014.01-2017.12, 85万元, 1作。

代表性论文:

1. Lijun Lu, Jianhua Ma, Qianjin Feng, [W. Chen*](#), and A Rahmim, “Anatomy-guided brain PET imaging incorporating a joint prior model”, *Physics in Medicine and Biology*, 60(6) (2015), pp. 2145-2166.
2. Y. Wu, G. Liu, [M. Huang](#), [J. Jiang](#), [W. Yang](#), [W. Chen*](#), [Q. Feng*](#), “Prostate Segmentation based on Variant Scale Patch and Local Independent Projection,” *IEEE Transactions on Medical Imaging*, 02/2014.

Published online.

3. [Yanqiu Feng*](#), Taigang He, Meiyang Feng, John-Paul Carpenter, Andreas Greiser, Xuegang Xin, [Wufan Chen*](#), Dudley J. Pennell, Guang-Zhong Yang, David N Firmin, Improved pixel-by-pixel MRI R2* relaxometry by nonlocal means, *Magnetic Resonance in Medicine*; DOI:10.1002/mrm.24914,2014.
4. [Yanqiu Feng*](#), Meiyang Feng, Huashuai Gao, Xinyuan Zhang, Xuegang Xin, Qianjin Feng, [Wufan Chen*](#), Taigang He, A novel semiautomatic parenchyma extraction method for improved MRI R2* relaxometry of iron loaded liver, *J Magnetic Resonance Imaging*; DOI: 10.1002/jmri.24331,2014.
5. H. Zhang, J. Huang, [J. Ma*](#), Z. Bian, Q. Feng, H. Lu, Z. Liang, and [W. Chen*](#). Iterative Reconstruction for X-Ray Computed Tomography using Prior-Image Induced Nonlocal Regularization, *IEEE Transactions on Biomedical Engineering*, October 2013.
6. [Y.Zhang](#), [P.-T.Yap](#), [G.Wu](#), [Q.Feng](#), [J.Lian](#), [W.Chen](#), [D.Shen](#). "Resolution enhancement of lung 4D-CT data using multiscale interphase iterative nonlocal means". *Medical Physics*, 2013, 40(5).
7. [Yanqiu Feng](#), Taigang He, Peter D Gatehouse, Xinzhong Li, Mohammed HarithAlam, Dudley J Pennell, [Wufan Chen*](#), David N Firmin, Improved MRI R2* Relaxometry of Iron loaded Liver with Noise Correction, *Magnetic Resonance in Medicine*; 70:1765-1774,2013.
8. [Wang Q *](#), Yang YY, Niu HJ, Zhang WJ, Feng QJ, [Chen WF*](#). An Ultrasound Study of Altered Hydration Behaviour of Proteoglycan-degraded Articular Cartilage. *BMC Musculoskeletal Disorders*. October 2013, 14:289, doi: 10.1186/1471-2474-14-289.
9. [Y.Feng](#), [Y.Song](#), [C.Wang](#), [X.Xin](#), [Q.Feng](#), [W.Chen](#). "Fast direct Fourier reconstruction of radial and PROPELLER MRI data using the Chirp transform algorithm on graphics hardware". *Magnetic Resonance in Medicine*, 2012.
10. Y. Wu, W. Yang, J. Jiang, S. Li, [Q. Feng](#), [W. Chen](#). "Semi-automatic Segmentation of Brain Tumors Using Population and Individual Information". *Journal of Digital Imaging*, 2013(26),786-796,2013.
11. Lin Xu, [Yanqiu Feng*](#), Xiaoyun Liu, Lili Kang, [Wufan Chen*](#), Robust GRAPPA Reconstruction Using Sparse Multi-Kernel Learning with Least Squares Support Vector Regression, *Magnetic Resonance Imaging*;32: 91-101,2014.
12. Fanrui Fu, Sherman [Xuegang Xin](#), [Wufan Chen](#), Temperature- and frequency-dependent dielectric properties of biological tissues within the temperature and frequency ranges typically used for magnetic resonance imaging-guided focused ultrasound surgery. *International Journal of Hyperthermia*, 30(1): 56-65. 2014.
13. [Yanqiu Feng](#), Yanli Song, Cong Wang, Xuegang Xin, Qianjin Feng, and [Wufan Chen*](#), Fast Direct Fourier Reconstruction of Radial and PROPELLER MRI Data Using the Chirp Transform Algorithm on Graphics Hardware, *Magnetic Resonance in Medicine*; 70:1087-1094,2013.
14. [Sherman Xuegang Xin](#), Qihua Huang, Yong Gao, Baige Li, Yikai Xu, and [Wufan Chen](#), Fetus MRI at 7T:B1 Shimming Strategy and SAR Safety Implications, *IEEE Transactions on Microwave Theory and Techniques*; 61(5), p. 2146-2152. 2013.
15. [Shoujun Zhou*](#), [Wufan Chen*](#), [Fucang Jia](#), [Qingmao Hu](#), [Yaoqin Xie](#), [Mingyang Chen](#), [Jianhuang Wu](#). Segmentation of Brain Magnetic Resonance Angiography Images Based on MAP-MRF with Multi-pattern Neighborhood System and Approximation of Regularization Coefficient. *Medical Image Analysis*. December 2013, Pages 1220 - 1235 **Volume 17, Issue 8**.
16. [J. Ma](#), H. Zhang, Y. Gao, J. Huang, Z. Liang, Q. Feng, and [W. Chen](#). Iterative image reconstruction for cerebral perfusion CT using a pre-contrast scan induced edge-preserving prior, *Physics and Medical Biology*, 57: 7519-7542, December 2012.
17. [W. Li](#), [S. Liao](#), [Q.Feng](#), [W. Chen](#), [D. Shen](#). "Learning Image Context for Segmentation of Prostate in CT-Guided Radiotherapy". *Phys. Med. Biol*, (57), 1283-1308, 2012.
18. [W. Yang](#), [Q.Feng](#), [M.Yu](#), [Z.Lu](#), [Y.Gao](#), [Y.Xu](#), [W.Chen](#). "Content-based retrieval of brain tumor in contrast-enhanced MRI images using tumor margin information and learned distance metric". *Med Phys*. 2012 ,39(11): 6929-42.

19. Y. Zhang, G. Wu, P.-T. Yap, Q. Feng, J. Lian, W. Chen and D. Shen. "Reconstruction of Super-Resolution Lung 4D-CT Using a Patch-Based Sparse Representation". *IEEE Transaction on Medical imaging*, 2012.
20. Lijun Lu, Nicolas A Karakatsanis, Jing Tang, Wufan Chen*, Arman Rahmim. 3.5D dynamic PET image reconstruction incorporating kinetics-based clusters. *Phys. Med. Biol.*, vol. 57, pp. 5035-5055, 2012.
21. Xuegang Xin, Jijun Han, Di Wang, Yanqiu Feng, Qianjin Feng, Wufan Chen*, Development of a Calibration Phantom Set for MRI Temperature Imaging System Quality Assurance, *Academic Radiology*; 19(6): 740-745,2012.
22. Xuegang Xin, Di Wang, Jijun Han, Yanqiu Feng, Qianjin Feng and Wufan Chen*, Numerical optimization of a three-channel radiofrequency coil for open, vertical-field, MR-guided, focused ultrasound surgery using the hybrid method of moment/finite difference time domain method, *NMR in Biomedicine*, July. 25(7): p. 909-916,2012.
23. Xuegang Xin, Jijun Han, Yanqiu Feng, Qianjin Feng, Wufan Chen*, Inverse Design of an Organ-Oriented RF Coil for the Open Vertical-Field MR-Guided Focused Ultrasound Surgery, *Magnetic Resonance Imaging*. November. 30(10): 1519-1526,2012.
24. J. Ma, Z. Liang, Y. Fan, Y. Liu, J. Huang, W. Chen and H. Lu. Variance analysis of x-ray CT sinograms in the presence of electronic noise background, *Medical Physics*, vol. 39, no. 7, pp. 4051-4065, June 2012.
25. Yang Chen, Wufan Chen, Xindao Yin, Xianghua Ye, Xudong Bao, Limin Luo, Qianjing Feng, Yinsheng Li, Xiaoe Yu, "Improving Low-dose Abdominal CT Images by Weighted Intensity Averaging over Large-scale Neighborhoods," *European Journal of Radiology*, 80(2), e42-e49, 2011.
26. J. Ma, J. Huang, H. Zhang, Q. Feng, H. Lu, Z. Liang, and W. Chen. Low-dose computed tomography image restoration using previous normal-dose scan, *Medical Physics*, vol. 38, no. 10, pp. 5713-5731, September 2011.
27. Yang Chen, Yinsheng Li, Weimin Yu, Limin Luo, Wufan Chen, Toumoulin Christine, "Joint-MAP Tomographic Reconstruction with Patch Similarity Based Mixture Prior Model," *SIAM, Multiscale Modeling and Simulation*,9(4), 1399-1419, 2011.
28. J. Huang, J. Ma*, N. Liu, H. Zhang, Z. Bian, Y. Feng, Q. Feng, and W. Chen*. Sparse angular CT reconstruction using non-local means based iterative-correction POCS, *Computers in Biology and Medicine*, vol. 41, pp. 195-205, April 2011.
29. Yang Chen, Yinsheng Li, Yingmei Dong, Liwei Hao, Limin Luo, and Wufan Chen*, "Effective Image Restorations Using a Novel Spatial Adaptive Prior," *EURASIP Journal on Advances in Signal Processing*, Volume 2010, Article ID 508089, 2010.
30. J. Ma, Q. Feng, Y. Feng, J. Huang, and W. Chen. Generalized Gibbs Priors Based Positron Emission Tomography Reconstruction, *Computers in Biology and Medicine*, vol. 40, pp. 565-571, June 2010.
31. Q. Feng, M. Foskey, S. Tang, W. Chen, and D. Shen. "Segmenting CT Prostate Images Using Population and Patient-specific Statistics For Radiotherapy," *Medical Physics*, 37(8), 4121-4132, 2010.
32. Yang Chen, Dazhi Gao, Cong Nie, Limin Luo, Wufan Chen, Xindao Yin, Yazhong Lin, "Bayesian statistical reconstruction for low-dose X-ray computed tomography using an adaptive-weighting nonlocal prior," *Computerized Medical Imaging and Graphics*, 33(7), 495-500, 2009.
33. Yang Chen, Liwei Hao, Xianghua Ye, Wufan Chen, Limin Luo, Xindao Yin, "PET Transmission Tomography Using A Novel Nonlocal MRF Prior," *Computerized Medical Imaging and Graphics*, 33(8), 623-633, 2009.
34. Yang Chen, Qianjin Feng, Limin Luo, Wufan Chen and Pengcheng Shi, "Nonlocal Prior Bayesian Tomographic Reconstruction," *Journal of Mathematical Imaging and Vision*, 30(2), 133-146, 2008.
35. Y. Chen, J. Ma, Q. Feng, W. Chen, and P. Shi. Nonlocal prior bayesian tomographic reconstruction, *Journal of Mathematical Imaging and Vision*, vol. 30, no. 2, pp. 133-146, February 2008.
36. Xin Xuegang, Feng Yanqiu, Han Jijun and Chen Wufan*, Three-channel receive-only RF coil for vertical-field MR-guided focused ultrasound surgery, *Magnetic Resonance Engineering*, 37B(4): p. 237-244. 2010.

37. [Wufan*](#), Ming Chen, and Jie Zhou, “Adaptively Regularized Constrained Total Least-Squares Image Restoration”, *IEEE Transactions on Image Processing*, 9(4) (2000), pp. 588-596.

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南方医科大学生物医学工程学院. 版权所有
广东省广州市广州大道北1838号南方医科大学生物医学工程学院
邮编: 510515 咨询电话: 020-61648275