

Yanjie Zhu

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Education

2006.9- 2011.6 Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China

Ph.D. in Circuits and System

2002.9-2006.7 University of Science and Technology of China, Hefei, China

B.S. in Electronic Engineering and Information Science

Experience

Harvard Medical School and Beth Israel Deaconess Medical Center, Boston, MA

2017.9-2018.9 Postdoctoral Research Fellow Advisor: Reza Nezafat

Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China

2016.1 – Present Associate Professor

2011. 7– 2015.12 Assistant Professor

Skills

- 9 years' experience in MR pulse sequence design and fast imaging reconstruction.
- Strong background in MRI physics and imaging principle.
- Familiar with RF pulse design and image post-processing.
- Good knowledge of Siemens 3T Magnetom scanner and IDEA platform

Publications

- Zhu Y, Fahmy A, Duan C, Nakamori S, Nezafat R, Automated Myocardial T2 and Extracellular Volume Quantification in Cardiac Magnetic Resonance Using Transfer Learning Based Myocardium Segmentation, *Radiology: AI*, 2020 (in press).
- Zhu Y, Yang D, Zou L, Chen Y, Liu X, Chung Y, T2STIR Preparation for Single-shot Myocardial Edema Imaging, *J Cardiovasc Magn Reson* 2019, 21:27.
- Zhu Y, Liu Y, Ying L, Liu X, Zheng H, Liang D, Bio-SCOPE: Fast biexponential $T_{1\rho}$ mapping of the brain using signal-compensated low-rank plus sparse matrix decomposition, *Magn Reson Med*, 2019, doi, 10.1002/mrm.28067.
- Zhu Y, Kang J, Duan C, Nezafat M, Neisius U, Jang J, Nezafat R, Integrated Motion Correction and Dictionary Learning for Free-breathing Myocardial T1 Mapping, *Magn Reson Med*, 2018, doi: 10.1002/mrm.27579.
- Zhu Y, Liu Y, Ying L, Peng X, Wang YX, Yuan J, Liu X, Liang D, SCOPE: signal compensation for low-rank plus sparse matrix decomposition for fast parameter mapping, *Phys Med Biol.* 63(18), 2018.
- Zhu Y, Peng X, Wu Y, Wu EX, Ying L, Liu X, Zheng H, Liang D, Direct Diffusion Tensor Estimation Using Model-Based Method with Spatial and Parametric Constraints. *Med Phys*, 44(2):570-580, 2017.
- Zhu Y, Zhang Q, Liu Q, Wang YX, Liu X, Zheng H, Liang D, PANDA- $T_{1\rho}$: Integrating Principal Component Analysis and Dictionary Learning for Fast $T_{1\rho}$ Mapping, *Magn Reson Med*, 73:263-272, 2015.