

Propositions accompanying the thesis

Super-Resolution and Self-Similarity in Magnetic Resonance Imaging

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1. SRR can improve the trade-off between image quality and acquisition time in MRI (this thesis, chapter 2)
2. SRR can improve both visualization and analysis in small-animal imaging (this thesis, chapters 2, 3, and 4)
3. SRR is a cheap and simple way to push the limits of current MRI scanner systems (this thesis, chapters 2, 3, and 4)
4. The model of self-similarity can improve the reconstruction quality of MR images, or equivalently, shorten the acquisition time (this thesis, chapter 5)
5. Fusing the residuals of multiple sparse representations of the same image patch improves voxel-wise image classification (this thesis, chapter 6)
6. Ph.D. projects should not be defined for individual students but for groups of 2-4 students
7. "Science is the certainty produced at the point where imperfect models meet inadequate data" - Paraphrasing Julian Barnes, *Sense of an Ending*
8. "It is what you don't expect that most needs looking for" - Neal Stephenson, *Anathem*
9. "Adventure without risk is Disneyland" - Douglas Coupland
10. "The future is already here - it's just not evenly distributed" - William Gibson
11. First, radiologists will become obsolete, then humans