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Compressed Sensing and Medical Applications

## Applying Compressed Sensing to Magnetic Resonance Imaging of Cancer

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**Abstract:** Magnetic resonance imaging has proven extremely useful in cancer imaging, but compressed sensing has made comparatively little inroads into this important application. I will discuss the particular issues with applying compressed sensing to cancer MRI and our work to resolve some of them, including uncertainty quantification, alternate sparsifying bases, and post-Cartesian acquisitions.