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Medical Imaging and Euclidean Motion Deconvolution

This talk will discuss the application of deconvolution methods to medical imaging data. The Radon transform forms the backbone for most computerized tomography (CT) imaging systems. Reconstruction of these images requires an implementation of the inverse Radon transform. There are a number of inversion algorithms available, however, most have serious deficiencies. This approach formulates the Radon transform as a convolution integral over the Euclidean motion group.