Visual Computing Forum

Algorithms for deformable image registration

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Abstract:

Image registration is crucial for postprocessing of image time series. Without motion correction the analysis and results easily get corrupted by breathing artifacts and other type of motion. There exists a variety of methods for deformable image will registration. discuss the mathematical and physical background for image registration within the theory of linear elasticity, challenges related to the image registration problem, as well as numerical solutions. Finally, I will show results of image registration algorithms applied to DCE-MRI image time series.





