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Fast optimization methods for image registration in adaptive radiation therapy

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Publications

Journal articles

Y. Qiao, B.P.F. Lelieveldt and M. Staring. An efficient preconditioner for stochastic gradient descent optimization of image registration, submitted.

Y. Qiao, T. Jagt, M. Hoogeman, B.P.F. Lelieveldt and M. Staring. Evaluation of an open source registration package for automatic contour propagation in online adaptive intensity-modulated proton therapy of prostate cancer, submitted.

Y. Qiao, B. van Lew, B.P.F. Lelieveldt and M. Staring. Fast automatic step size estimation for gradient descent optimization of image registration, *IEEE Transactions on Medical Imaging*, Volume 35, Issue 2, Pages 391–403, 2016.

International conference proceedings

Y. Qiao, Z. Sun, B.P.F. Lelieveldt and M. Staring. A stochastic quasi-Newton method for non-rigid image registration, *Medical Image Computing and Computer-Assisted Intervention - MICCAI*, Volume 9350, Pages 297–304, 2015.

Y. Qiao, B.P.F. Lelieveldt and M. Staring. Fast automatic estimation of the optimization step size for nonrigid image registration, *SPIE Medical Imaging: Image Processing - SPIE*, Volume 9034, Pages 90341A, 2014.

Abstracts

Y. Qiao, Z. Sun, B.P.F. Lelieveldt and M. Staring. A stochastic quasi-Newton method for non-rigid image registration, *Dutch society of Pattern recognition and Image Processing - NVPBV*, 2016.