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Fast optimization methods for image registration in adaptive radiation therapy

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Curriculum Vitae

Yuchuan Qiao was born in Hubei, China in 1986. In 2005, he started his studying in the major of Electrical Engineering at Hunan University and obtained a bachelor degree in the major of Automation in 2009. At the same year, he began his master study in the major of Control Science and Engineering. During his master study, he involved in the research of teleoperation techniques of cleaning robot for condenser in the power plant. In 2012, he obtained his master degree.

After his master study in China, he started his Ph.D. study in the Division of Image Processing (LKEB) under the Department of Radiology at Leiden University Medical Center in the Netherlands from September 2012. He first began with the project of "Fast Image Registration for Time-critical Medical Applications", then involved in the ADAPTNOW project to develop high-precision cancer treatment by online adaptive proton therapy. His work mainly focuses on new optimization schemes and its application in clinic, which results this thesis.

Since March 2017, he works as a post-doctoral researcher at the LONI in the field of brain image analysis for Alzheimer disease.