

Three-dimensional reconstruction: Part II: Optimization of segmentation and rendering of MRI

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摘要

Abstract

We tried to improve the basic three-dimensional reconstruction technique by comparing preprocessing, segmentation, shading and rendering techniques in 15 examples of MR investigations of the knee joint. We conclude that signal-normalising, combined threshold and tracking segmentation, grey-level-gradient shading, and combined surface and volume rendering (i. e. hybrid rendering) are the methods of choice for the three-dimensional reconstruction process.