

Using Digitally Reconstructed Radiographs from Magnetic Resonance Images to Localize Pelvic Lymph Nodes on 2D X-Ray Simulator-Based Brachytherapy Treatment Planning

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Abstract : In this project a new procedure has been introduced for utilizing digitally reconstructed radiograph from MRI images in Brachytherapy treatment planning. This procedure enables us to localize the tumor volume and delineate the extent of critical structures in vicinity of tumor volume. The aim of this project was to improve the accuracy of dose delivered to targets of interest in 2D treatment planning system.

Keywords : brachytherapy, cervix, digitally reconstructed radiographs, lymph node

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