研究简报

## 一种新的CT重建法

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收稿日期 1987-10-4 修回日期 1988-3-1 网络版发布日期 2010-4-2 接受日期

本文提出一种新的CT重建法——非均匀反投影重建法。新方法与通常的均匀反投影重建方法不同, 它不是 把投影差值均匀地分配给有关象素,而是根据象素的灰度加权系数非均匀地分配投影差值。这种新的重建 方法使重建象的质量有明显改善,特别是在投影方向数较少的非完全投影情况下,改善效果更加明显。

关键词 CT 图象重建 图象处理

分类号

# A NEW RECONSTRUCTION METHOD FOR COMPUTERIZED **TOMOGRAPHY**

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A nonuniform back-projection reconstruction method for computerized tomography is presented. In the uniform back-projection reconstruction method the projection difference-between a measured ray sum and a computed ray sum is uniformly distributed to the cells in the ray, but in the nonuniform back-projection reconstruction method the projection difference is nonuniformly distributed to the cells based on the weighted grey coefficient of the cell. A qualitative improvement of reconstructed images by the new reconstruction method is evident, especially in the incomplete projection

Key words CT Image reconstruction Image processing

DOI:

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