

Improvements to image reconstruction in computed tomography (Technion)

code: COM-1364

Computed tomography (CT) has become a very important tool in medical imaging and is used for preventive medicine or disease screening. CT images are produced by reconstruction algorithms that provide images of different resolutions and noise levels. Current CT machines use high-dose radiation in order to get an acceptable image quality for clinical diagnosis; however they are very slow and require the CT machines to be modified. The proposed technology is an algorithm that enables a substantial reduction in radiation dose in CT imaging, and being based on off-line learning and sparse representations, leads to fast image reconstruction and one that is robust and adjusted to the machine's imperfections.

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