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Computed Tomography Principles Design Artifacts

Six years after its first edition, *Computed Tomography: Principles, Design, Artifacts, and Recent Advances, Second Edition* provides and updated overview of the evolution of CT, the mathematical and physical aspects of the technology, and the fundamentals of image reconstruction algorithms. Given the high visibility and public awareness of the impact of x-ray radiation, the second edition features a new chapter on x-ray dose and presents different dose reduction techniques ranging from ...

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@inproceedings{Hsieh2003ComputedTP, title={Computed Tomography: Principles, Design, Artifacts, and Recent Advances}, author={J. Hsieh}, year={2003} } ... Methods of image acquisition and calibration for x-ray computed tomography. Martin Sjölin 2016. Citations Publications ...

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Computed Tomography: Principles, Design, Artifacts, and Recent Advances. Computed Tomography. : X-ray computed tomography (CT) has experienced tremendous growth in recent years, in terms of both...

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X-ray computed tomography (CT) is a technique that allows non-destructive imaging and quantification of internal features of objects. X-ray CT reveals differences in density and atomic composition and can therefore be used for the study of porosity, the relative distribution of contrasting solid phases and the penetration of injected solutions.

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Computed Tomography Ppt

In computed tomography (CT), the term artifact is applied to any systematic discrepancy between the CT numbers in the reconstructed image and the true attenuation coefficients of the object. CT images are inherently more prone to artifacts than conventional radiographs because the image is reconstructed from something on the order of a million independent detector measurements.

Artifacts in CT: Recognition and Avoidance | RadioGraphics

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Different kinds of artifacts can occur during a computer tomography (CT) scans due to hardware or software related problems, human physiologic phenomenon or physical restrictions. Some of them can seriously affecting diagnostic image quality, while others may simulate or be confused with different pathology.

Artifacts in computer tomography imaging: how it can ...

CT artifacts originate from a range of sources. Physics-based artifacts result from the physical processes involved in the acquisition of CT data. Patient-based artifacts are caused by such factors as patient movement or the presence of metallic materials in or on the patient. Scanner-based artifacts result from imperfections in scanner function.

Artifacts in CT: Recognition and Avoidance | RadioGraphics

Seven years after its first edition, Computed Tomography: Principles, Design, Artifacts, and Recent Advancements, Second Edition, provides an overview of the evolution of CT, the mathematical and physical aspects of the technology, and the fundamentals of image reconstruction algorithms.

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Although this definition is broad enough to cover nearly all types of nonideal images, it has little practical value since nearly every image produced by a CT scanner contains an artifact by this

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definition. In fact, most pixels in a CT image are artifacts in some shape or form.

Image Artifacts: Appearances, Causes, and Corrections

Content Six years after its first edition, *Computed Tomography: Principles, Design, Artifacts, and Recent Advances, Second Edition* provides an updated overview of the evolution of CT, the mathematical and physical aspects of the technology, and the fundamentals of image reconstruction algorithms.

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