

Noise Patterns in industrial Micro Computed Tomography



Filesize: 6.21 MB

Reviews

*This publication is fantastic. It really is full of knowledge and wisdom You are going to like just how the author write this publication.
(Harmon Watsica II)*

NOISE PATTERNS IN INDUSTRIAL MICRO COMPUTED TOMOGRAPHY



To save **Noise Patterns in industrial Micro Computed Tomography** PDF, make sure you click the hyperlink below and download the file or have access to additional information that are related to NOISE PATTERNS IN INDUSTRIAL MICRO COMPUTED TOMOGRAPHY book.

GRIN Verlag Mrz 2011, 2011. Taschenbuch. Book Condition: Neu. 211x149x13 mm. This item is printed on demand - Print on Demand Neuware - Research Paper from the year 2010 in the subject Computer Science - Technical Computer Science, grade: 1.4, University of Applied Sciences North Rhine-Westphalia Paderborn, language: English, abstract: Computer Tomography (CT) systems are used to produced images that are finding increasing use in medicine and mineralogy as in the Natural History Museum. In order to maximise the system performance, the images or scans, must have high quality. Ideally, the physical CT system should preserve the image quality. However, in reality, various physical processes degrade the quality of these images, producing noise and artefacts. The goal of this work is to understand the noise and artefacts in high-resolution imaging application of micro computer tomography (micro-CT). The project specifically looked at determining: I. How micro-CT scan parameters be optimised to reduce noise, and II. Which of the many commonly used noise reduction algorithms produce the best results, and III. How current and exposure effect each other. Experiments were carried out to obtain the raw data - images / scans for the study. Theoretical models were then implemented on the raw data to analyse and better understand the noise and artefacts in the images. This work provides a better understanding of both the fundamental performance (i.e. image quality) of the micro-CT system, and the assessment of user-defined parameters that could be used to optimise the performance of the micro-CT systems. These contributions will not only save time, money and resources, which will ultimately lead to better image quality (greater accuracy) 56 pp. Englisch.



[Read Noise Patterns in industrial Micro Computed Tomography Online](#)



[Download PDF Noise Patterns in industrial Micro Computed Tomography](#)

Related Kindle Books



[PDF] Games with Books : 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade

Click the link under to read "Games with Books : 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade" document.

[Download eBook »](#)



[PDF] Games with Books : Twenty-Eight of the Best Childrens Books and How to Use Them to Help Your Child Learn - from Preschool to Third Grade

Click the link under to read "Games with Books : Twenty-Eight of the Best Childrens Books and How to Use Them to Help Your Child Learn - from Preschool to Third Grade" document.

[Download eBook »](#)



[PDF] The Preschool Inclusion Toolbox: How to Build and Lead a High-Quality Program

Click the link under to read "The Preschool Inclusion Toolbox: How to Build and Lead a High-Quality Program" document.

[Download eBook »](#)



[PDF] Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications .

Click the link under to read "Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications ." document.

[Download eBook »](#)



[PDF] Crochet: Learn How to Make Money with Crochet and Create 10 Most Popular Crochet Patterns for Sale: (Learn to Read Crochet Patterns, Charts, and Graphs, Beginner s Crochet Guide with Pictures)

Click the link under to read "Crochet: Learn How to Make Money with Crochet and Create 10 Most Popular Crochet Patterns for Sale: (Learn to Read Crochet Patterns, Charts, and Graphs, Beginner s Crochet Guide with Pictures)" document.

[Download eBook »](#)



[PDF] Klara the Cow Who Knows How to Bow (Fun Rhyming Picture Book/Bedtime Story with Farm Animals about Friendships, Being Special and Loved. Ages 2-8) (Friendship Series Book 1)

Click the link under to read "Klara the Cow Who Knows How to Bow (Fun Rhyming Picture Book/Bedtime Story with Farm Animals about Friendships, Being Special and Loved. Ages 2-8) (Friendship Series Book 1)" document.

[Download eBook »](#)