

two dimensional phase unwrapping pdf

Two-Dimensional Phase Unwrapping Problem By Dr. Munther Gdeisat and Dr. Francis Lilley . Pre-requisite: In order to understand this tutorial it is necessary for you to have already studied and completed the "one-dimensional phase unwrapping problem" tutorial before reading this document.

Two-Dimensional Phase Unwrapping Problem

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Download Two-Dimensional Phase Unwrapping: Theory

Two-Dimensional Phase Unwrapping Problem By Dr. Munther Gdeisat and Dr. Francis Lilley Pre-requisite: In order to understand this tut... A description of the two dimensional phase unwrapping problem, applicable to signal processing and physics studies.

Two Dimensional Phase Unwrapping | Sampling (Signal

Phase unwrapping in images is often performed by computationally intensive, off-line systems under user guidance. ODT systems, however, place real-time constraints on the phase unwrapping of the velocity images. In this paper, we introduce a new method for two-dimensional phase unwrapping which 1) detects phase jumps using a neural network,

Two-Dimensional Phase Unwrapping Using Neural Networks

Two-Dimensional Phase Unwrapping skillfully integrates concepts, algorithms, software, and examples into a powerful benchmark against which new ideas and algorithms for phase unwrapping can be tested.

Two-Dimensional Phase Unwrapping: Theory, Algorithms, and

in one- or two-dimensional fields (see Oppenheim and Lira [1981] for a general review). A number of algorithms have been proposed to estimate phase from sampled, one-dimensional data (see, for example, Tribolet [1977]). Tribolet's algorithm and its successors are essentially adaptive schemes for integration of the phase derivative.

Satellite radar interferometry: Two-dimensional phase

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An approach to 'unwrapping' the 2π ambiguities in the two-dimensional data set is presented.

Satellite Radar Interferometry: Two-Dimensional Phase

PDF | A novel hybrid genetic algorithm (HGA) is proposed to solve the branch-cut phase unwrapping problem. It employs both local and global search methods.

(PDF) Two-dimensional phase unwrapping using a hybrid

The gradual progression of the phase unwrapping process is shown in Figure 2. The original wrapped phase

signal $\phi(x)$ contains four wraps, as shown in Figure 2(a). The removal of the first wrap is shown in Figure 2(b). The removal of the second wrap is shown in Figure 2(c).

One-Dimensional Phase Unwrapping Problem

phase unwrapping. One technique is a path following algorithm [5, 7] and the last technique was based on a two-dimensional extension of Itoh's algorithm [5, 8]. One class of techniques for phase unwrapping, mentioned above, is the method of least-squares phase unwrapping. The object of this class of techniques is to minimize the

Evaluation of Two-Dimensional Phase Unwrapping Algorithms

lar, two dimensional phase unwrapping has the potential to see significant speedup through implementation on these platforms. Our interest in two dimensional phase unwrapping stems from the research currently ongoing with the W.M. Keck 3-D Fusion microscope [18]. One of its modalities,

Phase unwrapping on reconfigurable hardware and graphics

Two 2D phase unwrapping approaches are included: 1. Phase quality guided path following method. 2. Goldstein's branch cut method. The algorithms are described in: D. C. Ghiglia and M. D. Pritt, Two-Dimensional Phase Unwrapping: Theory, Algorithms and Software. New York: Wiley-Interscience, 1998.

2D phase unwrapping algorithms - File Exchange - MATLAB

applied to the phase unwrapping problem. Two hybrid genetic algorithm methods for solving the two dimensional phase unwrapping problem are proposed and developed in this thesis. The performance of these two algorithms is subsequently compared with several existing methods of phase unwrapping.

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Two-dimensional (2D) phase unwrapping continues to find applications in a wide variety of scientific and engineering areas including optical and microwave interferometry, adaptive optics, compensated imaging, and synthetic-aperture-radar phase correction, and image processing.

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