Phase Unwrapping Algorithms For Radar Interferometry

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Phase Unwrapping Algorithms For Radar

Phase unwrapping algorithms for radar interferometry: residue-cut, least-squares, and synthesis algorithms Howard A. Zebker and Yanping Lu Department of Geophysics, Stanford University, Stanford, California 94305-2215 Received May 5, 1997; accepted September 18, 1997; revised manuscript received October 9, 1997

Phase unwrapping algorithms for radar interferometry ...

While phase unwrapping algorithms have proliferated over the past 10 years, two main approaches are currently in use. Each is most useful only for certain restricted applications. All these algorithms begin with the measured gradient of the phase field, which is subsequently integrated to recover the unwrapped phases.

CiteSeerX — Phase Unwrapping Algorithms for Radar ...

Phase unwrapping (PU) is one of the important procedures in measuring digital elevation model (DEM) from interferometric synthetic aperture radar (InSAR) images. It is known that the existence of phase discontinuity poses challenges to the traditional PU algorithms.

Discontinuity preserving phase unwrapping algorithm for ...

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Phase Unwrapping Algorithms For Radar Interferometry ...

dimensional data. Phase unwrapping is a key problem in many coherent imaging systems, including time series synthetic aperture radar interferometry (InSAR), with two spatial and one temporal data dimensions. The minimum cost flow (MCF) [1] phase unwrapping algorithm describes a global cost minimization

EDGELIST PHASE UNWRAPPING ALGORITHM FOR TIME SERIES INSAR ...

Phase unwrapping is a mathematical problem-solving technique increasingly used in synthetic aperture radar (SAR) interferometry, optical interferometry, adaptive optics, and medical imaging. In Two-Dimensional Phase Unwrapping, two internationally recognized experts sort through the multitude of ideas and algorithms cluttering current research, ...

Two-Dimensional Phase Unwrapping: Theory, Algorithms, and ...

properly, phase gradients greater than one-half cycle may cause large-scale errors that affect whole regions of the interferogram. The task of a phase unwrapping algorithm, then, re-duces to locating gradients that are greater than one-half cycle: these gradients are called discontinuities. Most algorithms locate discontinuities by posing the ...

Theory and pracce of phase unwrapping - UNAVCO

Since computed phase angles contain the ambiguities of integral multiples of 2 pirad, it is necessary to obtain continuous phase curves without the ambiguities before averaging. This process of...

(PDF) Analysis of the phase unwrapping problem

We present an algorithm that solves the phase unwrapping problem, using a combination of Fourier techniques. The execution time for our algorithm is equivalent to the computation time required for performing eight fast Fourier transforms and is stable against noise and residues present in the wrapped phase.

OSA | Fast phase unwrapping algorithm for interferometric ...

Phase unwrapping (PU) is among the most critical tasks in synthetic aperture radar (SAR) interferometry (InSAR). Due to the presence of noise, the interferogram usually presents phase ...

Satellite Radar Interferometry: Two-Dimensional Phase ...

Phase Unwrapping in InSAR : A Review Abstract: Synthetic aperture radar (SAR) interferometry (InSAR) is primarily used in remote-sensing applications and has created a new class of radar data that has significantly evolved during the last couple of decades.

Phase Unwrapping in InSAR : A Review - IEEE Journals ...

For real radar scenes, the phase unwrapping problem doesn't

have a unique solution due to phase discontinuity caused by the phase noise and aliasing. A phase unwrapping algorithm for interferometric phase images based on 3d-phase function branch merging and cutting is proposed.

A Phase Unwrapping Algorithm for Interferometric Phase ...

Phase unwrapping is the process of restoring the correct multiple of 2π to each point of the interferometric phase image. For a well-behaved smooth phase field all the unwrapped phase differences between adjacent interferogram samples lie between -π and +π. When this is true, phase unwrapping is straightforward. The

PROCESSING STRATEGIES FOR PHASE UNWRAPPING FOR INSAR ...

While phase unwrapping algorithms have proliferated over the past ten years, two main approaches are currently in use. Each is most useful only for certain restricted applications. All these algorithms begin with the measured gradient of the phase field, which is subsequently integrated to recover the unwrapped phases.

OSA | Phase unwrapping algorithms for radar interferometry ...

Graphical models for 2D phase unwrapping. We have invented a new suite of algorithms for 2-D phase unwrapping, based on iterative probability propagation (the sum-product algorithm).Phase unwrapping in 2-dimensional topologies is a signal processing problem that has been extensively studied over the past 20 years and has many important applications, including medical imaging, radar imaging ...

Nemanja Petrovic | Phase Unwrapping Project

Two-dimensional phase unwrapping is the process of re-covering unambiguous phase values from a two-dimensional array of phase values known only modulo 2ˇrad.

Quantum Annealing Approaches to the Phase-Unwrapping ...

A Region-Growing Algorithm for InSAR Phase Unwrapping Wei

Xu, Member, IEEE, and Ian Cumming, Member, IEEE Abstract— This paper describes a new region-growing algo-rithm for interferometric synthetic aperture radar (SAR) phase unwrapping. The algorithm is designed to handle noisy interfer-ograms and based on the following principles.

A Region-Growing Algorithm For InSAR Phase Unwrapping ...

SNAPHU: Statistical-Cost, Network-Flow Algorithm for Phase Unwrapping Description Two-dimensional phase unwrapping is the process of recovering unambiguous phase data from a 2-D array of phase values known only modulo 2pi rad. SNAPHU is an implementation of the Statistical-cost, Network-flow Algorithm for Phase Unwrapping proposed by Chen and Zebker (see references below).

SNAPHU: Statistical-Cost, Network-Flow Algorithm for Phase ...

Phase unwrapping is a problem that occurs in several fields as diverse as Synthetic Aperture Radar and MR Angiography. In all cases the problem is that the measuredphase signal can only take on values in a range, whilst the original phase signal can take on any value.