Architecture of the proposed U-Net based phase unwrapper and denoiser

Denoising Phase Unwrapping Algorithm For Precise Phase

Sebastian Brünink

Denoising Phase Unwrapping Algorithm For Precise Phase:

Development and Characterization of a Dispersion-Encoded Method for Low-Coherence Interferometry Christopher Taudt,2021-11-16 This Open Access book discusses an extension to low coherence interferometry by dispersion encoding The approach is theoretically designed and implemented for applications such as surface profilometry polymeric cross linking estimation and the determination of thin film layer thicknesses During a characterization it was shown that an axial measurement range of 79 91 m with an axial resolution of 0 1 nm is achievable Simultaneously profiles of up to 1 5 mm in length were obtained in a scan free manner This marked a significant improvement in relation to the state of the art in terms of dynamic range Also the axial and lateral measurement range were decoupled partially while functional parameters such as surface roughness were estimated The characterization of the degree of polymeric cross linking was performed as a function of the refractive index It was acquired in a spatially resolved manner with a resolution of 3 36 x 10 5 This was achieved by the development of a novel mathematical analysis approach   Wave Propagation, Scattering And Emission In Complex Media Ya-qiu Jin,2005-01-26 This book contains review papers presented at the International Workshop on Wave Propagation Scattering and Emission on Theory Experiment Simulation and Inversion WPSE The papers are of high quality covering broad areas a new mechanism of interaction of electromagnetic waves with complex media remote sensing information computational electromagnetics etc This book summarizes the most significant progress in wave propagation encompassing theory experiment simulation and inversion It will also serve as a good reference for scientists in future research List of Foreign Invited Speakers Henry Bertoni Brooklyn Polytechnic University Lawrence Carin Duke U Al Chang NASA Goddard Margaret Cheney Rensselaer Polytech Institute Weng Chew U of Illinois at Urbana Champaign Shane Cloude AEL Consultants UK Adrian Fung U of Texas at Arlington Al Gasiewski Environmental Tech Lab NOAA Martti Hallikainen Helsinki U of Technology Akira Ishimaru U of Washington Magdy Iskander U of Hawaii J A Kong MIT Roger Lang George Washington U Alex Maradudin U of California at Irvine Eric Michielssen U of Illinois at Urbana Champaign Eni Njoku Caltech Jet Propulsion Lab Carey Rappaport Northeastern U Marc Saillard Institut Fresnel Kamal Sarabandi U of Michigan David R Smith U of California at San Diego Mitsuo Tateiba Kyushu University George Uslenghi U of Illinois at Chicago and Werner Wiesbeck Karlsruhe U   *Proceedings of the 4th International Conference on Cognitive Based Information Processing and Applications–Volume 3* Bernard J. Jansen,Jun Ye,Qingyuan Zhou,2026-01-01 This book contains papers presented at the 4th International Conference on Cognitive based Information Processing and Applications CIPA in Changzhou China from November 22 to 23 2024 The papers represent the various technological advancements in theory technology and application of artificial intelligence including precision mining intelligent computing deep learning and all other theories models and technologies related to artificial intelligence It caters to postgraduate students researchers and practitioners specializing and working in the area of cognitive inspired computing and intelligent computing The book represents Volume 3 for this

conference proceedings which consists of a 3 volume book series **Computer Vision – ECCV 2024 Workshops** Alessio Del Bue,Cristian Canton,Jordi Pont-Tuset,Tatiana Tommasi,2025-05-26 The multi volume set LNCS 15623 until LNCS 15646 constitutes the proceedings of the workshops that were held in conjunction with the 18th European Conference on Computer Vision ECCV 2024 which took place in Milan Italy during September 29 October 4 2024 These LNCS volumes contain 574 accepted papers from 53 of the 73 workshops The list of workshops and distribution of the workshop papers in the LNCS volumes can be found in the preface that is freely accessible online Innovative Techniques and Applications of Modelling, Identification and Control Quanmin Zhu,Jing Na,Xing Wu,2018-04-20 This book presents the most important findings from the 9th International Conference on Modelling Identification and Control ICMIC 17 held in Kunming China on July 10 12 2017 It covers most aspects of modelling identification instrumentation signal processing and control with a particular focus on the applications of research in multi agent systems robotic systems autonomous systems complex systems and renewable energy systems The book gathers thirty comprehensively reviewed and extended contributions which help to promote evolutionary computation artificial intelligence computation intelligence and soft computing techniques to enhance the safety flexibility and efficiency of engineering systems Taken together they offer an ideal reference guide for researchers and engineers in the fields of electrical electronic engineering mechanical engineering and communication engineering

Optics Letters ,2007 *Electrical & Electronics Abstracts* ,1997 *Two- and Three-dimensional Methods for Inspection and Metrology* ,2006 *Inertial Fusion Sciences and Applications 2003* B. A. Hammel,2004

Two-Dimensional Phase Unwrapping Dennis C. Ghiglia,Mark D. Pritt,1998-04-28 A resource like no other the first comprehensive guide to phase unwrapping 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 explain clearly how to solve phase unwrapping problems and provide practicable algorithms that can be applied to problems encountered in diverse disciplines Complete with case studies and examples as well as hundreds of images and figures illustrating the concepts this book features A thorough introduction to the theory of phase unwrapping Eight algorithms that constitute the state of the art in phase unwrapping Detailed description and analysis of each algorithm and its performance in a number of phase unwrapping problems C language software that provides a complete implementation of each algorithm Comparative analysis of the algorithms and techniques for evaluating results A discussion of future trends in phase unwrapping research Foreword by former NASA scientist Dr John C Curlander 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 This unique introduction to a dynamic rapidly evolving field is essential for professionals and graduate students in SAR interferometry optical interferometry adaptive optics and magnetic

resonance imaging MRI   <u>Consistent 2-D Phase Unwrapping Guided by a Qualtiy Map</u> ,1995 The problem of 2 D phase unwrapping arises when a spatially varying quantity is measured modulo some period One needs to reconstruct a smooth unwrapped phase consistent with the original data by adding a multiple of the period to each sample Smoothness typically cannot be enforced over all of the scene due to noise and localized jumps An unwrapping algorithm may form a mask within which phase discontinuities are allowed In interferometry a quality map is available indicating the reliability of the measurements In this case the mask should be contained as much as possible in areas of low quality This paper presents an algorithm for phase unwrapping in which the mask design is guided by the quality map The mask is grown from the residues as defined by Goldstein et al into areas where the quality is below a threshold A connected component of the mask stops growing when its residue charge becomes balanced The threshold is raised as necessary to allow growth This stage terminates when all components are balanced The mask is then thinned by removing points that are not needed to cover the residues correctly The unwrapped phase is found by simple I D unwrapping along paths that avoid the mask We present an example solution found by the algorithm and discuss possible modifications   **Phase Unwrapping by N-connected TRW-S Algorithm for InSAR Images** Mehrnaz Movahed,2020   **Phase Unwrapping Using Discontinuity Optimization** ,2001 In SAR interferometry the periodicity of the phase must be removed using two dimensional phase unwrapping The goal of the procedure is to find a smooth surface in which large spatial phase differences called discontinuities are restricted to places where their presence is reasonable The pioneering work of Goldstein et al identified points of local unwrap inconsistency called residues which must be connected by discontinuities This paper presents an overview of recent work that treats phase unwrapping as a discrete optimization problem with the constraint that residues must be connected Several algorithms use heuristic methods to reduce the total number of discontinuities Constantini has introduced the weighted sum of discontinuity magnitudes as a criterion of unwrap error and shown how algorithms from optimization theory are used to minimize it Pixels of low quality are given low weight to guide discontinuities away from smooth high quality regions This method is generally robust but if noise is severe it underestimates the steepness of slopes and the heights of peaks This problem is mitigated by subtracting modulo 2 pi a smooth estimate of the unwrapped phase from the data then unwrapping the resulting residual phase The unwrapped residual is added to the smooth estimate to produce the final unwrapped phase The estimate can be computed by lowpass filtering of an existing unwrapped phase this makes possible an iterative algorithm in which the result of each iteration provides the estimate for the next An example illustrates the results of optimal discontinuity placement and the improvement from unwrapping of the residual phase   <u>Absolute Distance Contouring and a Phase Unwrapping Algorithm for Phase Maps with Discontinuities</u> Xinjun Xie,1997   <u>Efficient Phase Unwrapping</u> ,2005 In the field of optical interferometry two dimensional projections of light interference patterns are often analysed in order to obtain measurements of interest Such interference patterns or interferograms contain

phase information which is inherently wrapped onto the range t to it Phase unwrapping is the processes of the restoration of the unknown multiple of 2ir and therefore plays a major role in the overall process of interferogram analysis Unwrapping phase information correctly becomes a challenging process in the presence of noise This is particularly the case for speckle interferograms which are noisy by nature Many phase unwrapping algorithms have been devised by workers in the field in order to achieve better noise rejection and improve the computational performance This thesis focuses on the computational efficiency aspect and picks as a starting point an existing phase unwrapping algorithm which has been shown to have inherent noise immunity This is namely the tile based phase unwrapping method which attains its enhanced noise immunity through the application of the minimum spanning tree concept from graph theory The thesis examines the problem of finding a minimum spanning tree for this particular application from a graph theory perspective and shows that a more efficient class of minimum spanning tree algorithms can be applied to the problem The thesis then goes on to show how a novel algorithm can be used to significantly reduce the size of the minimum spanning tree problem in an efficient manner

Hybrid 2D Phase Unwrapping Methodology Using Spatial Fuzzy Clustering and Neurofuzzy Classification with Application in Sar Images ,2001 Existing phase unwrapping PU methodology has arbitrary settings in selection of most optimal algorithm for a particular phase image These arbitraries impose partially trial and error basis in finding for the best phase unwrapping algorithm and tinkering quality map in order to produce the most optimal unwrapped solution Hence a hybrid PU methodology is proposed and developed

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