

Nonlinear Processing with Linear Optics

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Abstract

Deep neural networks have achieved remarkable breakthroughs by leveraging multiple layers of data processing to extract hidden representations, albeit at the cost of large electronic computing power. To enhance energy efficiency and speed, the optical implementation of neural networks aims to harness the advantages of optical bandwidth and the energy efficiency of optical interconnections. In the absence of low-power optical nonlinearities, the challenge in the implementation of multilayer optical networks lies in realizing multiple optical layers without resorting to electronic components. In this study, we present a novel framework that uses multiple scattering that is capable of synthesizing programmable linear and nonlinear transformations concurrently at low optical power by leveraging the nonlinear relationship between the scattering potential, represented by data, and the scattered field. Theoretical and experimental investigations show that repeating the data by multiple scattering enables non-linear optical computing at low power continuous wave light.

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Nonlinear Image Processing VIII Edward R. Dougherty, Jaakko T. Astola, 1997 Mathematical Nonlinear Image Processing Edward R. Dougherty, Jaakko Astola, 2012-12-06 Mathematical Nonlinear Image Processing deals with a fast growing research area The development of the subject springs from two factors 1 the great expansion of nonlinear methods applied to problems in imaging and vision and 2 the degree to which nonlinear approaches are both using and fostering new developments in diverse areas of mathematics Mathematical Nonlinear Image Processing will be of interest to people working in the areas of applied mathematics as well as researchers in computer vision Mathematical Nonlinear Image Processing is an edited volume of original research It has also been published as a special issue of the Journal of Mathematical Imaging and Vision Volume 2 Issue 2 3 **Soft Computing in Image Processing** Mike Nachttegaal, Dietrich van der Weken, Etienne E. Kerre, Wilfried Philips, 2007-06-24 Images have always been very important in human life Their applications range from primitive communication between humans of all ages to advanced technologies in the industrial medical and military field The increased possibilities to capture and analyze images have contributed to the largeness that the scientific field of image processing has become today Many techniques are being applied including soft computing Soft Computing in Image Processing Recent Advances follows the edited volumes Fuzzy Techniques in Image Processing volume 52 published in 2000 and Fuzzy Filters for Image Processing volume 122 published in 2003 and covers a wide range of both practical and theoretical applications of soft computing in image processing The 16 excellent chapters of the book have been grouped into five parts Applications in Remote Sensing Applications in Image Retrieval Applications in Image Analysis Other Applications and Theoretical Contributions The focus of the book is on practical applications which makes it interesting for every researcher that is involved with soft computing image processing or both scientific branches *Progress In Computer Vision And Image Analysis* Horst Bunke, Juan Jose Villanueva, Gemma Sanchez, Xavier Otazu, 2009-08-26 This book is a collection of scientific papers published during the last five years showing a broad spectrum of actual research topics and techniques used to solve challenging problems in the areas of computer vision and image analysis The book will appeal to researchers technicians and graduate students **Biomedical Image Analysis** Rangaraj M. Rangayyan, 2004-12-30 Computers have become an integral part of medical imaging systems and are used for everything from data acquisition and image generation to image display and analysis As the scope and complexity of imaging technology steadily increase more advanced techniques are required to solve the emerging challenges Biomedical Image Analysis demonstr Nonlinear Image Processing , 1998 **Graph Based Representations in Pattern Recognition** Jean-Michel Jolion, Walter Kropatsch, 2012-12-06 Graph based representation of images is becoming a popular tool since it represents in a compact way the structure of a scene to be analyzed and allows for an easy manipulation of sub parts or of relationships between parts Therefore it is widely used to control the different levels from segmentation to interpretation The 14 papers in this volume

are grouped in the following subject areas hypergraphs recognition and detection matching segmentation implementation problems representation *Nonlinear Image Processing VIII* ,1997 **Technologies and Innovation** Rafael Valencia-García,Martha Bucaram-Leverone,Javier Del Cioppo-Morstadt,Néstor Vera-Lucio,Emma Jácome-Murillo,2022-10-22 This book constitutes the refereed proceedings of the 8th International Conference CITI 2022 held in Guayaquil Ecuador during November 14 17 2022 The 19 full papers included in this book were carefully reviewed and selected from 48 submissions They were organized in topical sections as follows machine Learning knowledge based systems computer vision and image analysis networks monitoring and collaborative systems apps and user interfaces *XIV Brazilian Symposium on Computer Graphics and Image Processing* DÍbio Leandro Borges,Shin-Ting Wu,2001 Annotation Consists of 47 papers and 38 posters presented at the October 2001 symposium The main areas of discussion are geometric modeling pattern classification scale space and multi resolution processing mathematical morphology image compression aerial interpretation medical images segmentation and feature extraction Topics include robust adaptive approximation of implicit curves high level verification of handwritten numeral strings image synthesis techniques for ocean animation skeletal muscle deformation using finite element analysis and wavelet compression of vector field visualization No subject index c Book News Inc

Image Processing ,2002 **Advances in Computer Vision and Information Technology** ,2013-12-30 The latest trends in information technology represent a new intellectual paradigm for scientific exploration and the visualization of scientific phenomena This title covers the emerging technologies in the field Academics engineers industrialists scientists and researchers engaged in teaching and research and development of computer science and information technology will find the book useful for their academic and research work **Digital Color Imaging** Christine Fernandez-Maloigne,Frederique Robert-Inacio,Ludovic Macaire,2013-03-04 This collective work identifies the latest developments in the field of the automatic processing and analysis of digital color images For researchers and students it represents a critical state of the art on the scientific issues raised by the various steps constituting the chain of color image processing It covers a wide range of topics related to computational color imaging including color filtering and segmentation color texture characterization color invariant for object recognition color and motion analysis as well as color image and video indexing and retrieval *Wavelet Applications in Signal and Image Processing VIII* ,2000 **Third International**

Conference on Image Processing and Its Applications, 18-20 July 1989, Venue, University of Warwick, UK ,1989

Proceedings, International Conference on Image Processing ,1995 **Proceedings of the 8th International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences** Deren Li,Jingxiong Zhang,Michael F. Goodchild,2008 **Applied Optics** ,1998 *Physics Briefs* ,1992 **Applications of Digital Image Processing XI** Andrew G. Tescher,1988

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