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# COMPUTER TRANSFORMATION OF DIGITAL IMAGES AND PATTERNS

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 World Scientific



# Computer Transformation Of Digital Images And Patterns

**IEEE Neural Networks Council**



## **Computer Transformation Of Digital Images And Patterns:**

**Computer Transformation Of Digital Images And Patterns** Zi-cai Li, Tien Dai Bui, Yuan Yan Tang, Ching Yee Suen, 1989-11-01 This book is concerned with linear and nonlinear transformations of digitized images and patterns Transformation models include linear quadratic cubic bilinear biquadratic bicubic Coons model and other nonlinear forms such as harmonic projective and perspective transformations Discrete techniques have been developed to realize both forward and inverse transformations The latter can be applied to normalize distorted images and to enhance the pattern recognition process Efficient algorithms such as the splitting shooting methods and splitting integrating methods have been developed and analysed in this book for the first time Graphical examples are given and compared with existing algorithms This book is of interest to researchers in the areas of pattern recognition character recognition image processing computer vision computer graphics and other related fields

**A Digital Optical Cellular Image Processor** Kung-Shiuh Huang, 1990 The research detailed in this book has been motivated by the search for a simple parallel digital optical architecture for image processing The development of a simple unified consistent theory of parallel binary image processing is described and its implementation on digital optical processors is considered Both theoretical and experimental work are included and both algorithmic and architectural designs are covered Also presented are the experimental results of the implementation of a prototype Digital Optical Cellular Image Processor DOCIP system used to demonstrate the concept of the DOCIP architecture

**Handbook Of Pattern Recognition And Computer Vision (3rd Edition)** Chi Hau Chen, Patrick S P Wang, 2005-01-14 The book provides an up to date and authoritative treatment of pattern recognition and computer vision with chapters written by leaders in the field On the basic methods in pattern recognition and computer vision topics range from statistical pattern recognition to array grammars to projective geometry to skeletonization and shape and texture measures Recognition applications include character recognition and document analysis detection of digital mammograms remote sensing image fusion and analysis of functional magnetic resonance imaging data etc There are six chapters on current activities in human identification Other topics include moving object tracking performance evaluation content based video analysis musical style recognition number plate recognition etc

**Digital Geometry** Reinhard Klette, Azriel Rosenfeld, 2004-08-06 The first book on digital geometry by the leaders in the field

**International Conference on Manufacturing Automation** S. T. Tan, 1993

Advances in Digital and Computational Geometry Reinhard Klette, Azriel Rosenfeld, Fridrich Sloboda, 1998-09 Digital geometry deals with geometric properties of subsets of digital images or equivalently with geometric properties of finite sets of lattice points Digital geometry can anticipate progress in imaging technology allowing higher and higher spatial resolution It seems that the input data in both fields will converge to data embedded in digital arrays of very high spatial resolution

*Mathematical Reviews*, 1993

**IEEE Computer Society Workshop on Computer Architecture for Pattern Analysis and Image Database Management**, 1985 Computer

Architecture for Pattern Analysis and Image Database Management ,1981      **The Cumulative Book Index** ,1991 A world list of books in the English language      Digital Image Processing William K. Pratt,1978 A thoroughly updated edition of a bestselling guide to digital image processing this book covers cutting edge techniques for enhancing and interpreting digital images from different sources scanners radar systems and digital cameras A PIKS image processing library of executable files as well as digital versions of many of the pictures are provided via ftp to help apply the techniques discussed in the book

**Computer Analysis of Images and Patterns** ,1989      **Digital Image Processing Algorithms** Ioannis Pitas,1993 Provides an overview of various digital image processing algorithms in C code A programming tool for students engineers and scientists in the field of digital image processing and computer vision this book aimed at an advanced level and is accompanied by a demo disk      **Bibliographic Guide to Technology** New York Public Library. Research Libraries,1978

**1985 IEEE Computer Society Workshop on Computer Architecture for Pattern Analysis and Image Database Management, Miami Beach, Florida, November 18-20, 1985** ,1985      **Digital Image Processing and Computer Vision** Robert J. Schalkoff,1989-05-23 An introduction to computer vision and associated digital processing functions Reviews all aspects of image processing pattern recognition geometric optics and artificial intelligence that are important to solving computer vision problems Also provides an introduction to digital image acquisition and display hardware and techniques Discusses special computer architectures for computer vision new neural network applications edge detection strategies and segmentation      *IJCNN'99* IEEE Neural Networks Council,1999 IJCNN 99 spans the neural network field from neurons to consciousness training algorithms to robotics chaos to control fuzzy logic to evolutionary computing Starting with a symposium on biological neural networks it explores the potential impact of neurobiological discoveries      *9th International Conference on Pattern Recognition* ,1988      1999 IEEE International Conference on Acoustics, Speech, and Signal Processing ,1999      Tutorial on Parallel Processing Robert H. Kuhn,David A. Padua,1981

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