

World Scientific Series in Computer Science – Vol. 24

A Digital Optical Cellular Image Processor

Theory, Architecture and Implementation

Kung-Shih Huang

World Scientific

Digital Optical Cellular Image Processor

Kung-Shiuh Huang



Digital Optical Cellular Image Processor:

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

Digital Optical Cellular Image Processing Kung-Shiuh Huang,1992 Abstract This paper reviews some of sic digital optical cellular image processing techniques that have been proposed or experimentally demonstrated

Optical and Digital Image Processing Gabriel Cristobal,Peter Schelkens,Hugo Thienpont,2013-02-12 In recent years Moore s law has fostered the steady growth of the field of digital image processing though the computational complexity remains a problem for most of the digital image processing applications In parallel the research domain of optical image processing has matured potentially bypassing the problems digital approaches were suffering and bringing new applications The advancement of technology calls for applications and knowledge at the intersection of both areas but there is a clear knowledge gap between the digital signal processing and the optical processing communities This book covers the fundamental basis of the optical and image processing techniques by integrating contributions from both optical and digital research communities to solve current application bottlenecks and give rise to new applications and solutions Besides focusing on joint research it also aims at disseminating the knowledge existing in both domains Applications covered include image restoration medical imaging surveillance holography etc a very good book that deserves to be on the bookshelf of a serious student or scientist working in these areas Source Optics and Photonics News

Advancements in Optical Methods, Digital Image Correlation and Mechanics of Biological Systems and Materials, Volume 2 Chi-Hung Hwang,Gordon A. Shaw,Motoharu Fujigaki,Karen Kasza,Alexander McGhee,2025-05-17 Advancements in Optical Methods Digital Image Correlation and the Mechanics of Biological Systems and Materials Volume 2 of the Proceedings of the 2024 SEM Annual Conference Exposition on Experimental and Applied Mechanics the second volume of three from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of Experimental Mechanics including papers in the following general technical research areas DIC Methods Its Applications Photoelasticity and Interferometry Applications Micro Optics and Microscopic Systems Multiscale and New Developments in Optical Methods Structure Function and Performance Research in Progress Cellular Biomechanics and Mechanobiology Experimental Techniques in Biological and Biomimetic Systems

Handbook of Digital Imaging Michael Kriss,2015-02-16 A comprehensive and practical analysis and overview of the imaging chain

through acquisition processing and display The Handbook of Digital Imaging provides a coherent overview of the imaging science amalgam focusing on the capture storage and display of images The volumes are arranged thematically to provide a seamless analysis of the imaging chain from source image acquisition to destination image print display The coverage is planned to have a very practical orientation to provide a comprehensive source of information for practicing engineers designing and developing modern digital imaging systems The content will be drawn from all aspects of digital imaging including optics sensors quality control colour encoding and decoding compression projection and display Contains approximately 50 highly illustrated articles printed in full colour throughout Over 50 Contributors from Europe US and Asia from academia and industry The 3 volumes are organized thematically for enhanced usability Volume 1 Image Capture and Storage Volume 2 Image Display and Reproduction Hardcopy Technology Halftoning and Physical Evaluation Models for Halftone Reproduction Volume 3 Imaging System Applications Media Imaging Remote Imaging Medical and Forensic Imaging 3 Volumes www.handbookofdigitalimaging.com **Digital Microscopy** ,2003-12-18 This updated second edition of the popular methods book Video Microscopy shows how to track dynamic changes in the structure or architecture of living cells and in reconstituted preparations using video and digital imaging microscopy Contains 10 new chapters addressing developments over the last several years Basic information principles applications and equipment are covered in the first half of the volume and more specialized video microscopy techniques are covered in the second half Shows how to track dynamic changes in the structure or architecture of living cells and in reconstituted preparations using video and digital imaging microscopy Contains 10 new chapters addressing developments over the last several years Covers basic principles applications and equipment Specialized video microscopy techniques are covered **Optical/digital Image Processing for Electronic Vision Applications** Michael Kent Giles,Randall Bradford Smith,1984 Digital and Optical Image Processing University of Rochester. Institute of Optics,University of Rochester. Department of Electrical Engineering,1985

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