

NEW CONCEPTS AND TECHNOLOGIES IN PARALLEL INFORMATION PROCESSING

edited by

E. R. CAIANIELLO



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New Concepts And Technologies In Parallel Information Processing

E.R. Caianiello



New Concepts And Technologies In Parallel Information Processing:

New Concepts and Technologies in Parallel Information Processing E.R. Caianiello, 2014-01-14 Learning And Recognition: A Modern Approach - Proceedings Of The Beijing International Workshop On Neural Networks C F Zhang, K H Zhao, Z X Zhu, 1989-12-01 The Proceedings cover a wide range of topics theoretical foundations of neural nets novel neural net architectures biological information processing discrete fluid models learning cellular automata electronic and optoelectronic implementation of neural nets and cellular automata and applications of neural nets to pattern and speech recognition

Foundations of Image Understanding Larry S. Davis, 2012-12-06 Computer systems that analyze images are critical to a wide variety of applications such as visual inspections systems for various manufacturing processes remote sensing of the environment from space borne imaging platforms and automatic diagnosis from X rays and other medical imaging sources Professor Azriel Rosenfeld the founder of the field of digital image analysis made fundamental contributions to a wide variety of problems in image processing pattern recognition and computer vision Professor Rosenfeld s previous students postdoctoral scientists and colleagues illustrate in Foundations of Image Understanding how current research has been influenced by his work as the leading researcher in the area of image analysis for over two decades Each chapter of Foundations of Image Understanding is written by one of the world s leading experts in his area of specialization examining digital geometry and topology early research which laid the foundations for many industrial machine vision systems edge detection and segmentation fundamental to systems that analyze complex images of our three dimensional world multi resolution and variable resolution representations for images and maps parallel algorithms and systems for image analysis and the importance of human psychophysical studies of vision to the design of computer vision systems Professor Rosenfeld s chapter briefly discusses topics not covered in the contributed chapters providing a personal historical perspective on the development of the field of image understanding Foundations of Image Understanding is an excellent source of basic material for both graduate students entering the field and established researchers who require a compact source for many of the foundational topics in image analysis

Modern Cellular Automata Kendall Preston Jr., Michael J.B. Duff, 2013-06-29 It is with great pleasure that I present this fourth volume in the series Advanced Applications in Pattern Recognition It would be difficult to find two authors better versed in the design and application of parallel image processing systems due to both their own many years of pioneering in the field and their encyclopedic knowledge of what is going on in university and industrial laboratories around the world The monograph is unique in its parallel presentation of orthogonal and hexagonal dissections and the wealth of graphic illustration of algorithmic procedures for processing and analyzing images in the various known implementations of parallel image processing architectures This volume should find a place on the bookshelf of every practitioner of pattern recognition image processing and computer graphics Morton Nadler General Editor vii

PREFACE This book endeavors to introduce the reader to the subject of cellular logic and cellular automata and is devoted

particularly to those parts dealing with the manipulation of pictorial data The study of cellular automata owes much to the pioneering work of John von Neumann during the 1950s Von Neumann was interested in general problems in the behavior of computing structures and was immensely impressed by the complexity and performance of the human brain which he felt must point towards successful designs for automatic computing machines **Solutions In Action** Karl

Lanngren,2012-12-02 Solitons in Action is a collection of papers that discusses the concept of a wave packet or pulse known as a soliton One paper reviews the development of the solitary wave concept with emphasis on the difference between a solitary wave and a soliton The Korteweg deVries KdV equation shows the interactions between infinite sets of conservation laws and the inverse scattering transform method The Backlund transform technique produces hierarchies of multisoliton solutions for nonlinear wave equations The Gel'fand Levitan algorithm can effect an inverse scattering calculation that relates changes in the scattering data to changes in the solution of corresponding wave equation One paper points out that concepts in differential geometry can show the fundamental nature of soliton behavior and the relationship between inverse scattering and the Backlund transformation Solitons in action can be viewed as magnetic flux propagates through a gap between two closely spaced superconductors in quantum units This view results in a simplified procedure for perturbation expansions around multisoliton solutions This collection can prove useful for researchers involved in the study of fluid mechanics of pure and applied sciences of mathematical sciences and of wave theory **Proceedings of the Army**

Numerical and Computers Analysis Conference ,1977 Engineering Applications of Lasers and Holography

Winston Kock,2013-06-29 This book is intended for upperclass college students as an introduction to the growing field of coherent optics and to the increasing number of its applications and also for those versed in other fields who wish to gain perspective and insight without detailed calculations It is an outgrowth of the author's Science Study Series book Lasers and Holography Besides being an updated and expanded version of that book it includes discussions of numerous recent applications It differs in its slightly higher analytical level and in the inclusion of large numbers of references which enable the reader to obtain further information on subjects of interest to him The level was selected to match the capabilities of students in their middle college years so as to permit them to make an early assessment of possible career interests in any of the many interdisciplinary fields now embracing the technologies of modern optics It is hoped that the book can be used as has occurred rather extensively with another of the author's Science Study Series books Sound Waves and Light Waves as an auxiliary reading assignment for students in various disciplines The author strongly believes that the promise of continued growth in this field as evidenced by the extensive participation in technology developments by industry both within the U S and abroad identifies the subject as Doubleday 1969 hard cover and paperback **Proceedings ,1977 NEW CONCEPTS**

AND TECHNOLOGIES IN PARALLEL INFORMATION PROCESSING- PROCEEDINGS OF THE NATO ADVANCED STUDY INSTITUTE. , Strategic Advancements in Utilizing Data Mining and Warehousing Technologies: New Concepts

and Developments Taniar, David, Rusu, Laura Irina, 2009-12-31 This book presents and disseminates new concepts and developments in the areas of data warehousing and data mining in particular on the research trends shaped during the last few years Provided by publisher

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