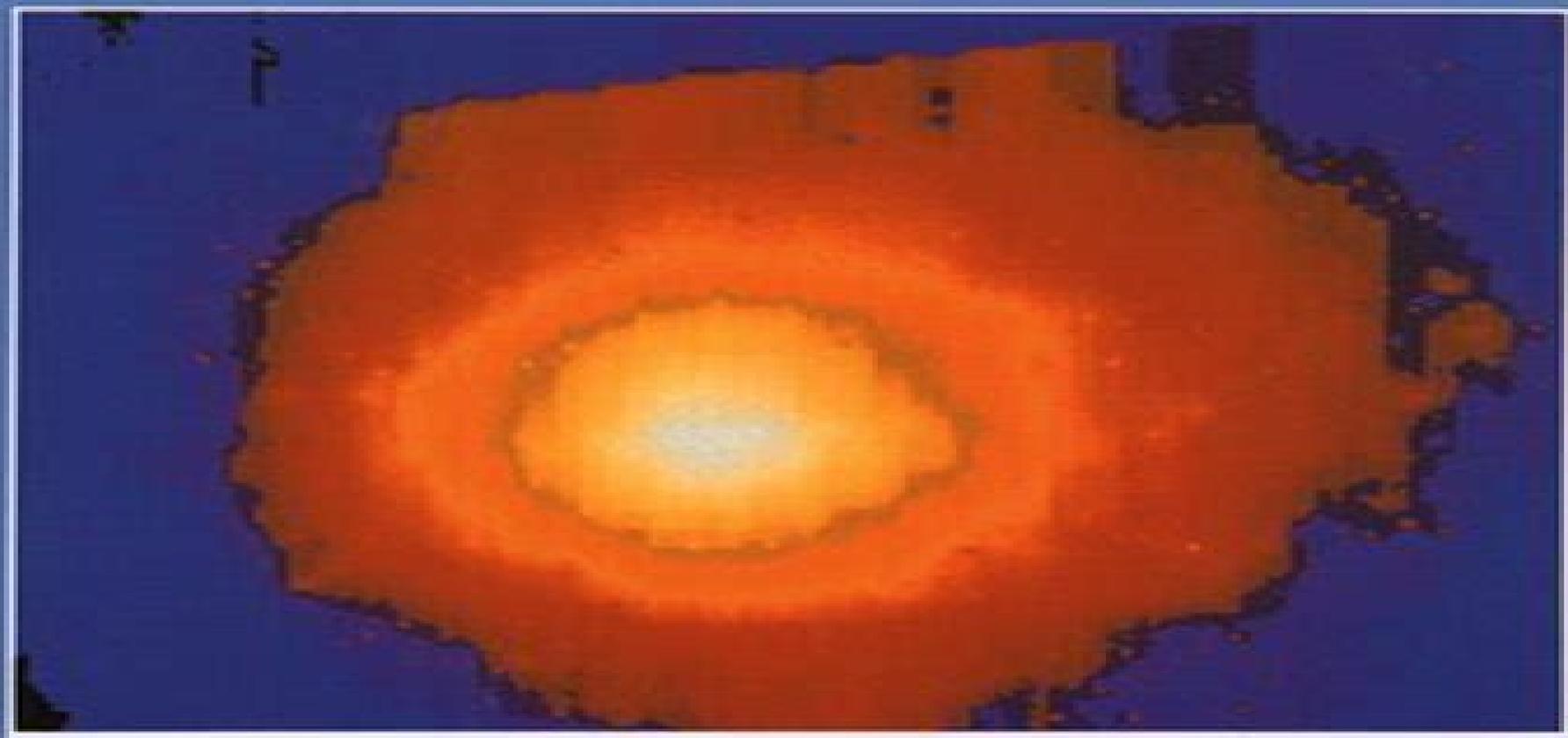


# FUNDAMENTALS OF DIGITAL IMAGE PROCESSING



ANIL K. JAIN

PRENTICE HALL INFORMATION AND SYSTEM SCIENCES SERIES  
Thomas Kailath, Series Editor

# Digital Image Processing Solution Anil K Jain

**Andrew G. Tescher**



## **Digital Image Processing Solution Anil K Jain:**

**Fundamentals of Digital Image Processing** Anil K. Jain, 1989 An overview of the major topics in digital image processing representation processing techniques and communication this work starts by presenting the mathematical tools required to handle image processing problems It then discusses the major topics to enable the reader to learn the underlying techniques and concepts Digital Image Processing Techniques Michael P. Ekstrom, 2012-12-02 Digital Image Processing Techniques is a state of the art review of digital image processing techniques with emphasis on the processing approaches and their associated algorithms A canonical set of image processing problems that represent the class of functions typically required in most image processing applications is presented Each chapter broadly addresses the problem being considered the best techniques for this particular problem and how they work their strengths and limitations and how the techniques are actually implemented as well as their computational aspects Comprised of eight chapters this volume begins with a discussion on processing techniques associated with the following tasks image enhancement restoration detection and estimation reconstruction and analysis along with image data compression and image spectral estimation The second section describes hardware and software systems for digital image processing Aspects of commercially available systems that combine both processing and display functions are considered as are future prospects for their technological and architectural evolution The specifics of system design trade offs are explicitly presented in detail This book will be of interest to students practitioners and researchers in various disciplines including digital signal processing computer science statistical communications theory control systems and applied physics **Tutorial and Selected Papers in Digital Image Processing** Harry C. Andrews, 1978 **Applications of Digital Image Processing**, 2004 Applications of Digital Image Processing XVI Andrew G. Tescher, 1993 **International Conference on Materials, Architecture and Engineering Technology (ICMAET 2013)** Fangli Zheng, 2014-03-03 The main objective of ICMAET 2013 is to provide a platform for researchers engineers academicians as well as industrial professionals from all over the world to present their research results and development activities in Materials Architecture Agriculture Science Environment Engineering and Engineering Technology This conference provides opportunities for the delegates to exchange new ideas and experiences face to face to establish business or research relations and to find global partners for future collaboration ICMAET 2013 received over 350 submissions which were all reviewed by at least two reviewers As a result of our highly selective review process about 130 papers have been retained for inclusion in the ICMAET 2013 proceedings less than 40% of the submitted papers The program of ICMAET 2013 consists of invited sessions and technical workshops and discussions covering a wide range of topics This rich program provides all attendees with the opportunities to meet and interact with one another We hope your experience is a fruitful and long lasting one With your support and participation the conference will continue its success for a long time The conference is supported by many universities and research institutes Many professors play an important role in

the successful holding of the conference so we would like to take this opportunity to express our sincere gratitude and highest respects to them They have worked very hard in reviewing papers and making valuable suggestions for the authors to improve their work We also would like to express our gratitude to the external reviewers for providing extra help in the review process and to the authors for contributing their research result to the conference Special thanks go to our publisher DEStech Publication Applications of Digital Image Processing XXVII ,2004 *Scientific and Technical Aerospace Reports* ,1989 *Applications of Digital Image Processing VIII* Andrew G. Tescher,1985 Summary of Awards ,1988 **Medical Imaging** ,2002 *Advances in Computer Vision and Image Processing* ,1986 **Advanced Algorithms and Architectures for Signal Processing** Jeffrey M. Speiser,1987 Image Enhancement and Restoration Thomas S. Huang,1986 **Journal of the Optical Society of America** ,1975 **Cellular Neural Networks and Image Processing** Tao Yang,2002 Yang who is not identified applies the design principles of cellular image operators to a hardware platform called cellular neural network CNN a VLSI oriented vision chip invented in 1988 Having presented different local rules in previous works he here examines many local rule classes that can be implemented by a CNN exploiting such unique characteristics as its ability to process three source images in parallel and so define computations among the three The study is second in his trilogy on cellular image processing algorithms and cellular hardware platforms Annotation copyrighted by Book News Inc Portland OR Image Science Mathematics Carroll O. Wilde,Eamon Barrett,1977 **The British National Bibliography** Arthur James Wells,1968 *Optics News* ,1976 Includes a directory of members in one issue each year Index to IEEE Publications Institute of Electrical and Electronics Engineers,1981 Issues for 1973 cover the entire IEEE technical literature

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