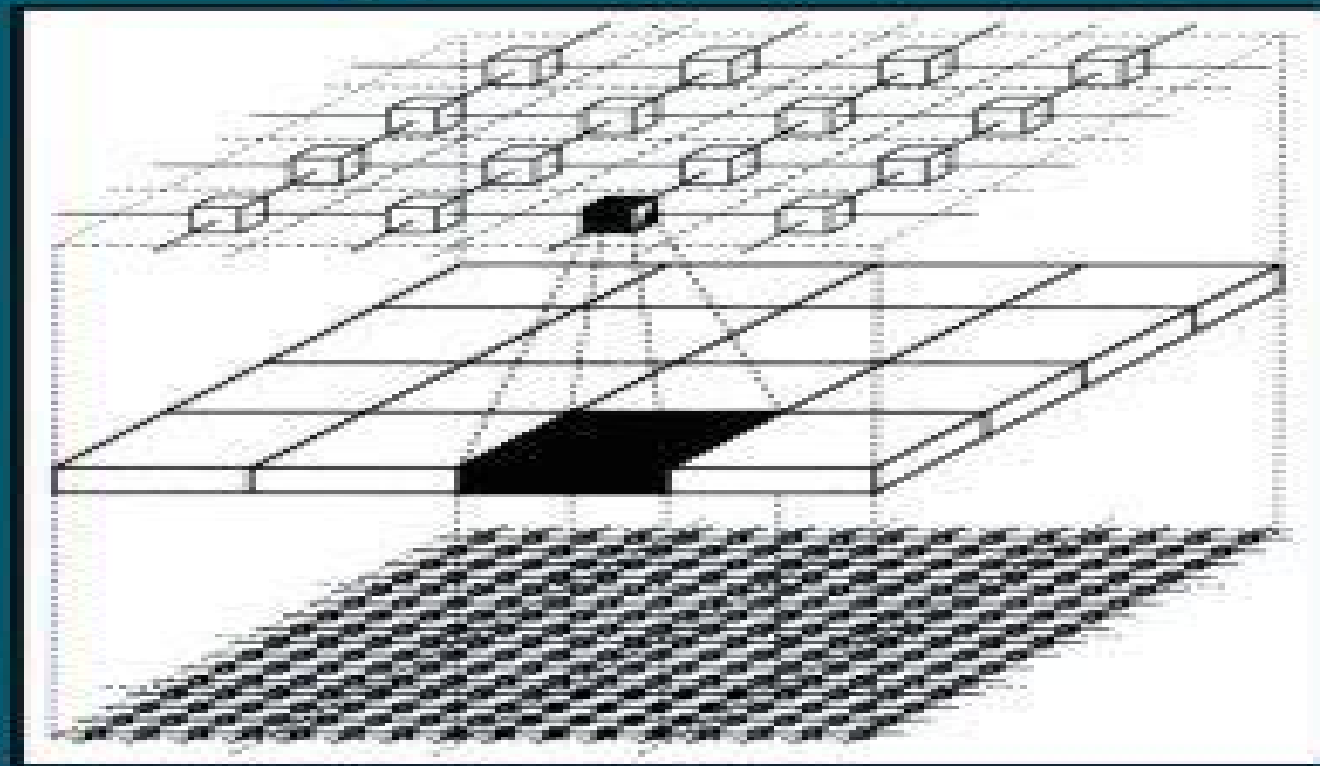


# Pyramidal Architectures for Computer Vision



VIRGINIO CANTONI  
AND  
MARCO FERRETTI

# Pyramidal Architectures For Computer Vision

**Jean-Michel Jolion, Azriel Rosenfeld**



## **Pyramidal Architectures For Computer Vision:**

*Pyramidal Architectures for Computer Vision* Virginio Cantoni, Marco Ferretti, 2012-12-06 Computer vision deals with the problem of manipulating information contained in large quantities of sensory data where raw data emerge from the transducing 6 7 sensors at rates between 10 to 10 pixels per second Conventional general purpose computers are unable to achieve the computation rates required to operate in real time or even in near real time so massively parallel systems have been used since their conception in this important practical application area The development of massively parallel computers was initially characterized by efforts to reach a speedup factor equal to the number of processing elements linear scaling assumption This behavior pattern can nearly be achieved only when there is a perfect match between the computational structure or data structure and the system architecture The theory of hierarchical modular systems HMSs has shown that even a small number of hierarchical levels can sizably increase the effectiveness of very large systems In fact in the last decade several hierarchical architectures that support capabilities which can overcome performances gained with the assumption of linear scaling have been proposed Of these architectures the most commonly considered in computer vision is the one based on a very large number of processing elements PEs embedded in a pyramidal structure Pyramidal architectures supply the same image at different resolution levels thus ensuring the use of the most appropriate resolution for the operation task and image at hand

**Pyramidal Systems for Computer Vision** Virginio Cantoni, Stefano Levialdi, 2012-12-06 This book contains the proceedings of the NATO Advanced Research Workshop held in Maratea Italy May 5 9 1986 on Pyramidal Systems for Image Processing and Computer Vision We had 40 participants from 11 countries playing an active part in the workshop and all the leaders of groups that have produced a prototype pyramid machine or a design for such a machine were present Within the wide field of parallel architectures for image processing a new area was recently born and is growing healthily the area of pyramidally structured multiprocessing systems Essentially the processors are arranged in planes from a base to an apex each one of which is generally a reduced usually by a power of two version of the plane underneath these processors are horizontally interconnected within a plane and vertically connected with fathers on top planes and children on the plane below This arrangement has a number of interesting features all of which were amply discussed in our Workshop including the cellular array and hypercube versions of pyramids A number of projects in different parts of the world are reported as well as some interesting applications in computer vision tactile systems and numerical calculations

*Pyramidal Architectures for Computer Vision* ,1994 3C Vision Virginio Cantoni, Stefano Levialdi, Bertrand Zavidovique, 2011-05-25 The exponential explosion of images and videos concerns everybody's common life since this media is now present everywhere and in all human activities Scientists artists and engineers in any field need to be aware of the basic mechanisms that allow them to understand how images are essentially information carriers Images bear a strong evocative power because their perception quickly brings into mind a number of related pictorial contents of past

experiences and even of abstract concepts like pleasure attraction or aversion This book analyzes the visual hints thanks to which images are generally interpreted processed and exploited both by humans and computer programs Comprehensive introductory text Introduces the reader to the large world of imagery on which many human activities are based from politics to entertainment from technical reports to artistic creations Provides a unified framework where both biological and artificial vision are discussed through visual cues through the role of contexts and the available multi channels to deliver information

**Parallel Computer Vision** Leonard Uhr, 2014-08-05 **Parallel Computer Vision** **Advances in Computer Vision** Franc Solina, Walter Kropatsch, Reinhard Klette, Ruzena Bajcsy, 2012-12-06 Computer vision solutions used to be very specific and difficult to adapt to different or even unforeseen situations The current development is calling for simple to use yet robust applications that could be employed in various situations This trend requires the reassessment of some theoretical issues in computer vision A better general understanding of vision processes new insights and better theories are needed The papers selected from the conference staged in Dagstuhl in 1996 to gather scientists from the West and the former eastern block countries address these goals and cover such fields as 2D images scale space morphology segmentation neural networks Hough transform texture pyramids recovery of 3 D structure shape from shading optical flow 3 D object recognition and how vision is integrated into a larger task driven framework hand eye calibration navigation perception action cycle Computer Vision Anup Basu, Xiaobo Li, 1993 This book contains a selection of papers which were presented at the Vision Interface 92 Conference It also includes several invited articles from prominent researchers in the field suggesting future directions in Computer Vision **A Pyramid Framework for Early Vision** Jean-Michel Jolion, Azriel Rosenfeld, 2012-12-06 Biological visual systems employ massively parallel processing to perform real world visual tasks in real time A key to this remarkable performance seems to be that biological systems construct representations of their visual image data at multiple scales A Pyramid Framework for Early Vision describes a multiscale or pyramid approach to vision including its theoretical foundations a set of pyramid based modules for image processing object detection texture discrimination contour detection and processing feature detection and description and motion detection and tracking It also shows how these modules can be implemented very efficiently on hypercube connected processor networks A Pyramid Framework for Early Vision is intended for both students of vision and vision system designers it provides a general approach to vision systems design as well as a set of robust efficient vision modules **Signal Processing Handbook** C.H. Chen, 1988-07-26 Introductory systematic treatment of the many interrelated aspects Twenty three contributions address the fundamentals spectral estimation algorithms image processing land and ocean seismic data telecommunications 3 D object reconstructions Alk paper Annotation copyright Book News Inc Po *Artificial Vision* Stefano Levialdi, Virginio Cantoni, Vito Roberto, 1996-09-19 Artificial Vision is a rapidly growing discipline aiming to build computational models of the visual functionalities in humans as well as machines that emulate them Visual communication in itself involves a number of challenging topics with a dramatic

impact on contemporary culture where human computer interaction and human dialogue play a more and more significant role This state of the art book brings together carefully selected review articles from world renowned researchers at the forefront of this exciting area The contributions cover topics including image processing computational geometry optics pattern recognition and computer science The book is divided into three sections Part I covers active vision Part II deals with the integration of visual with cognitive capabilities and Part III concerns visual communication Artificial Vision will be essential reading for students and researchers in image processing vision and computer science who want to grasp the current concepts and future directions of this challenging field This state of the art book brings together selected review articles and accounts of current projects from world renowned researchers at the forefront of this exciting area The contributions cover topics such as Psychology of perception Image processing Computational geometry Visual knowledge representation and languages It is this truly multi disciplinary approach that has produced successful theories and applications for the subject

**Issues on Machine Vision** G.G. Pieroni, 2014-05-04 A machine vision system should be able to analyze images and produce descriptions of what it sees The descriptions should capture the aspects of the objects being imaged and be useful for accomplishing some specific tasks In this volume a number of subjects are discussed They include theoretical aspects which focus on shape analysis special architectures 3 D image decomposition inspection by machine vision and others Applications include geophysical image analysis robotics sparse image understanding biomedical applications An ample survey of the present industrial applications is also provided

**Visual Attention Mechanisms** Virginio Cantoni, Maria Marinaro, Alfredo Petrosino, 2012-12-06 Proceedings of the Fifth International School on Neural Networks E R Caianiello on Visual Attention MechaProceedings of the Fifth International School on Neural Networks E R Caianiello on Visual Attention Mechanisms held 23 28 October 2000 in Vietri sul Mare Italy nisms held 23 28 October 2000 in Vietri sul Mare Italy The book covers a number of broad themes relevant to visual attention ranging from computer vision to psychology and physiology of vision The main theme of the book is the attention processes of vision systems and it aims to point out the analogies and the divergences of biological vision with the frameworks introduced by computer scientists in artificial vision

*Image Processing '92 (Icip '92) - Proceedings Of The 2nd Singapore International Conference* Srinivasan Venugopal, Sim Heng Ong, Yew Hock Ang, 1992-09-02 This volume contains papers on Image Compression Implementations Feature Detection 3 D Vision Document Processing Multi Resolution Processing Medical Imaging Image Analysis Modelling Neural Networks Object Recognition Remote Sensing Dynamic Vision Application System Architecture Image Restoration Enhancement and Image Segmentation

*1993 Computer Architectures for Machine Perception* Magdy A. Bayoumi, Larry S. Davis, Kimon Valavanis, 1993 Proceedings of the Computer Architectures for Machine Perception Workshop held Dec 15 17 1993 in New Orleans Louisiana Papers came from several communities computer architecture pattern recognition image processing and analysis computer vision and VLSI No index Annotation copyright Book N

**Intelligent Perceptual**

**Systems** Vito Roberto,1993-11-10 Perceptual processes in humans and machines investigated and simulated by means of the computational approach are the subject matter of this volume Researchers in artificial intelligence pattern recognition and psychology discuss aspects of vision speech understanding sensory motor coordination and their interplay with cognitive and behavioral functionalities The papers adopt the computational approach as the basic research paradigm Connectionist models numerical and statistical techniques symbolic logic based formalisms and hybrid representations provide the formal background to the research Some of the papers were prepared for a workshop held in Trieste Italy in October 1992

*Parallel Architectures and Parallel Algorithms for Integrated Vision Systems* Alok N. Choudary,J.H. Patel,2012-12-06 Computer vision is one of the most complex and computationally intensive problem Like any other computationally intensive problems parallel processing has been suggested as an approach to solving the problems in computer vision Computer vision employs algorithms from a wide range of areas such as image and signal processing advanced mathematics graph theory databases and artificial intelligence Hence not only are the computing requirements for solving vision problems tremendous but they also demand computers that are efficient to solve problems exhibiting vastly different characteristics With recent advances in VLSI design technology Single Instruction Multiple Data SIMD massively parallel computers have been proposed and built However such architectures have been shown to be useful for solving a very limited subset of the problems in vision Specifically algorithms from low level vision that involve computations closely mimicking the architecture and require simple control and computations are suitable for massively parallel SIMD computers An Integrated Vision System IVS involves computations from low to high level vision to be executed in a systematic fashion and repeatedly The interaction between computations and information dependent nature of the computations suggests that architectural requirements for computer vision systems can not be satisfied by massively parallel SIMD computers **Advances in Computers**

,1999-09-14 Since its first volume in 1960 *Advances in Computers* has presented detailed coverage of innovations in hardware and software and in computer theory design and applications It has also provided contributors with a medium in which they can examine their subjects in greater depth and breadth than that allowed by standard journal articles As a result many articles have become standard references that continue to be of significant lasting value despite the rapid growth taking place in the field Transputer Research and Applications 5 North American Transputer Users Group.

Conference,1992 Parallel processing is now becoming a household word among computer researchers and designers This work contains 29 contributions from leading experts in the field attending the 1992 NATUG conference Human and Machine Perception 3 Virginio Cantoni,Vito di Gesù,Alessandra Setti,Domenico Tegolo,2012-12-06 The following are the proceedings of the Fourth International Workshop on Human and Machine Perception held in Palermo Italy on June 20 23 2000 under the auspices of three Institutions the Cybernetic and Biophysics Group GNCB of the Italian National Research Council CNR and the two Inter Department Centers of Cognitive Sciences of Palermo and Pavia University respectively A

broad spectrum of topics are covered in this series ranging from computer perception to psychology and physiology of perception The theme of this workshop on Human and Machine Perception was focused on Thinking Deciding and Acting As in the past editions the final goal has been the analysis and the comparison of biological and artificial solutions The focus of the lectures has been on presenting the state of the art and outlining open questions In particular they sought to stress links suggesting possible synergies between the different cultural areas The panel discussion has been conceived as a forum for an open debate briefly introduced by each panelist and mainly aimed at deeper investigation of the different approaches to perception and strictly related topics The panelists were asked to prepare a few statements on hot points as a guide for discussion These statements were delivered to the participants together with the final program for a more qualified discussion

Automatic Vehicle Guidance Alberto Broggi, 1999 This book surveys the history of automatic vehicle guidance based on the processing of visual information starting from the very first projects worldwide up to the latest developments It also presents the ARGO prototype vehicle developed at the University of Parma Italy and describes its equipment setup and performance ARGO has been equipped with cameras and processing systems to drive autonomously in real traffic conditions The complete system has been tested on public roads during a tour in which ARGO drove itself along the Italian highway network for more than 2000 km A detailed analysis of this trip is also included

## Unveiling the Power of Verbal Beauty: An Mental Sojourn through **Pyramidal Architectures For Computer Vision**

In a world inundated with displays and the cacophony of quick interaction, the profound power and mental resonance of verbal beauty often disappear into obscurity, eclipsed by the continuous onslaught of sound and distractions. Yet, located within the musical pages of **Pyramidal Architectures For Computer Vision**, a fascinating function of literary splendor that impulses with natural emotions, lies an memorable journey waiting to be embarked upon. Penned by a virtuoso wordsmith, that interesting opus guides viewers on a psychological odyssey, softly exposing the latent potential and profound affect embedded within the complicated web of language. Within the heart-wrenching expanse of this evocative analysis, we can embark upon an introspective exploration of the book is key subjects, dissect its charming publishing style, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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