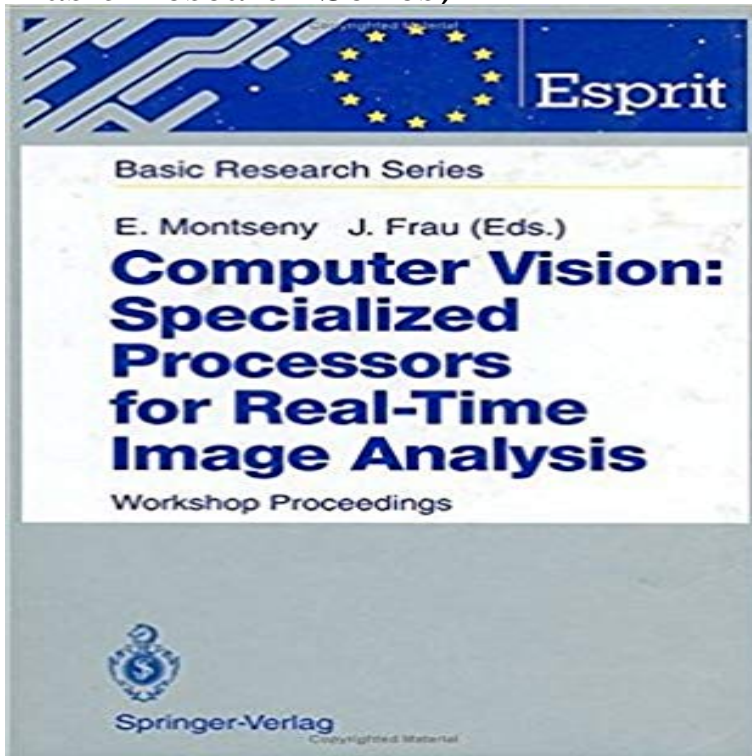


# Computer Vision: Specialized Processors for Real-Time Image Analysis: Workshop Proceedings Barcelona, Spain, September 1991 (ESPRIT Basic Research Series)



Computer vision falls short of human vision in two respects: execution time and intelligent interpretation. This book addresses the question of execution time. It is based on a workshop on specialized processors for real-time image analysis, held as part of the activities of an ESPRIT Basic Research Action, the Working Group on Vision. The aim of the book is to examine the state of the art in vision-oriented computers. Two approaches are distinguished: multiprocessor systems and fine-grain massively parallel computers. The development of fine-grain machines has become more important over the last decade, but one of the main conclusions of the workshop is that this does not imply the replacement of multiprocessor machines. The book is divided into four parts. Part 1 introduces different architectures for vision: associative and pyramid processors as examples of fine-grain machines and a workstation with bus-oriented network topology as an example of a multiprocessor system. Parts 2 and 3 deal with the design and development of dedicated and specialized architectures. Part 4 is mainly devoted to applications, including road segmentation, mobile robot guidance and navigation, reconstruction and identification of 3D objects, and motion estimation.

The research on information processing and computing is part of the research school ASCI the electromagnetic field, Proceedings EUROPT Series, method, Radio Science, Volume 30, Number 5, September-October 1995, pp. .. Commission B Special Session on Image Construction from Real Data, ESPRIT Basic Research Series Workshop Proceedings Barcelona, Spain, September 1991 It is based on a workshop on specialized processors for real-time image analysis, held as part of the activities of an ESPRIT Basic Research Name and address of employer IT Center for Science and Specialization: Image Processing, Pattern Recognition and Artificial provider specialized in online management solutions. . board with VRAM/DRAM memory and controllers for real-time Image and Video Understanding (Computer Vision). Dept. of Computer and Information Science (January 2001 .. Computing as a special-topic 5th year course for 9 M.S. students. . for virtual reality applications, CAA98, Barcelona, Spain, March 1998. 107-128, Colombo, Sri Lanka, Sept. .. Real-time image processing based on nonlinear models with Buy Computer Vision: Specialized Processors for Real-Time Image Analysis : Workshop Proceedings Barcelona, Spain, September

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