



VLSI And Parallel Computing For Pattern Recognition And Artificial Intelligence

Author : N Ranganathan / **Category :** Computers / **Total Pages :** 296 pages

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Summary : Free vlsi and parallel computing for pattern recognition and artificial intelligence pdf download - this book covers parallel algorithms and architectures and vlsi chips for a range of problems in image processing computer vision pattern recognition and artificial intelligence the specific problems addressed include vision and image processing tasks fast fourier transforms hough transforms discrete cosine transforms image compression polygon matching template matching pattern matching fuzzy expert systems and image rotation the collection of papers gives the reader a good introduction to the state-of-the-art while for an expert this serves as a good reference and a source of some new contributions in this field contents encompass an environment for evaluating massively parallel array architectures for spatially mapped applications m c herbordt c c weems a reconfigurable architecture for image processing and computer vision s m bhandarkar et al a design methodology for very large array processors part 1 gipop processor array n venkateswaran et al a design methodology for very large array processors part 2 pacube vlsi arrays n venkateswaran et al a vlsi implementation of inverse discrete cosine transform a k bhattacharya s s haider systolic merging and ranking of votes for the generalized hough transform m albanesi m ferretti high speed parallel vlsi architectures for image decorrelation t acharya a mukherjee p mac a polygon matching chip r sastry n ranganathan quadtree algorithms for template matching on mesh connected computer h senoussi a saoudi fast pattern-matching algorithm on modular mesh-connected computers with multiple buses k l chung a vlsi parallel architecture for fuzzy expert systems v catania g ascia vlsi implementation of an efficient asic architecture for real-time rotation of digital images i ghosh b majumdar readership computer scientists and electrical engineers keywords

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