

2. Discrete Relaxation

- Discrete relaxation is an **alternative to** (or addition to) the interpretation tree search.
- Relaxation is an **iterative** technique with polynomial time complexity.
- Relaxation uses **local constraints** at each iteration.
- It can be implemented on parallel machines.

Discrete Relaxation Techniques

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Discrete Relaxation Techniques:

Discrete Relaxation Techniques Thomas C. Henderson, 1990 Very Good No Highlights or Markup all pages are intact

Minimax and Applications Ding-Zhu Du, Panos M. Pardalos, 2013-12-01 Techniques and principles of minimax theory play a key role in many areas of research including game theory optimization and computational complexity In general a minimax problem can be formulated as $\min_x \max_y f(x, y)$ where $f(x, y)$ is a function defined on the product of X and Y spaces There are two basic issues regarding minimax problems The first issue concerns the establishment of sufficient and necessary conditions for equality $\min_x \max_y f(x, y) = \max_y \min_x f(x, y)$ The classical minimax theorem of von Neumann is a result of this type Duality theory in linear and convex quadratic programming interprets minimax theory in a different way The second issue concerns the establishment of sufficient and necessary conditions for values of the variables x and y that achieve the global minimax function value $\min_x \max_y f(x, y)$ There are two developments in minimax theory that we would like to mention

Progress In Image Analysis And Processing - Proceedings Of The 5th International Conference

Virginio Cantoni, Luigi P Cordella, Stefano Levialdi, G Sanniti Di Baja, 1990-03-01 This volume contains papers presented at the 5th International Conference on Image Analysis and Processing It covers the most important topics of current interest in the field presenting a large collection of recent results achieved by leading academic and industrial research groups from several countries It contains invited lectures and research papers dealing with theoretical and applicative aspects of Image Processing It is a valuable and updated reference source for the Image Processing community It contains advanced architectural concepts and describes new frontiers for applicants

Dictionary of Computer Vision and Image Processing

Robert B. Fisher, Toby P. Breckon, Kenneth Dawson-Howe, Andrew Fitzgibbon, Craig Robertson, Emanuele Trucco, Christopher K. I. Williams, 2013-11-08 Written by leading researchers the 2nd Edition of the Dictionary of Computer Vision Includes the addition of reference links across the majority of terms pointing readers to further information about the concept under discussion so that they can continue to expand their understanding Now available as an eBook with enhanced content approximately 50 videos to further illustrate specific terms active cross linking between terms so that readers can easily navigate from one related term to another and build up a full picture of the topic in question and hyperlinked references to fully embed the text in the current literature

A Computational Framework for Segmentation and Grouping

G. Medioni, Mi-Suen Lee, Chi-Keung Tang, 2000-03-01 This book represents a summary of the research we have been conducting since the early 1990s and describes a conceptual framework which addresses some current shortcomings and proposes a unified approach for a broad class of problems While the framework is defined our research continues and some of the elements presented here will no doubt evolve in the coming years It is organized in eight chapters In the Introduction chapter we present the definition of the problems and give an overview of the proposed approach and its implementation In particular we illustrate the limitations of the 2.5D sketch and motivate the use of a representation in terms of layers instead

In chapter 2 we review some of the relevant research in the literature The discussion focuses on general computational approaches for early vision and individual methods are only cited as references Chapter 3 is the fundamental chapter as it presents the elements of our salient feature inference engine and their interaction It introduced tensors as a way to represent information tensor fields as a way to encode both constraints and results and tensor voting as the communication scheme Chapter 4 describes the feature extraction steps given the computations performed by the engine described earlier In chapter 5 we apply the generic framework to the inference of regions curves and junctions in 2 D The input may take the form of 2 D points with or without orientation We illustrate the approach on a number of examples both basic and advanced In chapter 6 we apply the framework to the inference of surfaces curves and junctions in 3 D Here the input consists of a set of 3 D points with or without as associated normal or tangent direction We show a number of illustrative examples and also point to some applications of the approach In chapter 7 we use our framework to tackle 3 early vision problems shape from shading stereo matching and optical flow computation In chapter 8 we conclude this book with a few remarks and discuss future research directions We include 3 appendices one on Tensor Calculus one dealing with proofs and details of the Feature Extraction process and one dealing with the companion software packages

Image Understanding , Graph Based Representations in Pattern Recognition Edwin Hancock,Mario Vento,2003-01-01 The refereed proceedings of the 4th IAPR International Workshop on Graph Based Representation in Pattern Recognition GbRPR 2003 held in York UK in June July 2003 The 23 revised full papers presented were carefully reviewed and selected for inclusion in the book The papers are organized in topical sections on data structures and representation segmentation graph edit distance graph matching matrix methods and graph clustering

Pattern Recognition and Machine Learning Y. Anzai,1992-07-14 Recognition and learning by a computer Representing information Generation and transformation of representations Pattern feature extraction Pattern understanding methods Learning concepts Learning procedures Learning based on logic Learning by classification and discovery Learning by neural networks

VLSI Algorithms and Architectures N. Ranganathan,1993 Methods for Solving Engineering Problems, Using Analog Computers Leon Levine,1964 The Graph Labeling Model and Its Application to The Problem of Edge Linking ,1983 Great Ideas of Modern Mathematics, Their Nature and Use Jagjit Singh,1959 An explanation of the development and structure of the modern mathematics used in contemporary science

Pattern Recognition in Practice IV: Multiple Paradigms, Comparative Studies and Hybrid Systems E.S. Gelsema,L.N. Kanal,1994-09-30 These proceedings are divided into six sections pattern recognition signal and image processing probabilistic reasoning neural networks comparative studies and hybrid systems They offer prospective users examples of a range of applications of the methods described

Lifetime Validation of Digital Systems Via Fault Modeling and Test Generation Hussain Said Al-Asaad,1998 **Proceedings of the ... IEEE International Conference On Systems, Man, and Cybernetics** ,1988 **Electronic Imaging and Multimedia Systems** Chung-Sheng Li,Guo jia zi ran ke xue ji jin wei

yuan hui,1996 Visual Communications and Image Processing ,1989 *Proceedings of the 1988 IEEE International
Conference on Systems, Man and Cybernetics, August 8-12, 1988, Beijing and Shenyang, China* ,1988 **SIAM Journal on
Scientific Computing** ,2009 Journal of Mathematics and Physics ,1955

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