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Advances in **P**attern **R**ecognition

Hexagonal Image Processing

Lee Middleton
Jayanthi Sivaswamy

A Practical Approach



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They present the state of the art of hexagonal image processing and a comparative study of processing images sampled using hexagonal and square grids. **Hexagonal Image Processing** Lee Middleton, Jayanthi Sivaswamy, 2005-12-28 The sampling lattice used to digitize continuous image data is a significant determinant of the quality of the resulting digital image and therefore of the efficacy of its processing. The nature of sampling lattices is intimately tied to the tessellations of the underlying continuous image plane. To allow uniform sampling of arbitrary size images the lattice needs to correspond to a regular spatially repeatable tessellation. Although drawings and paintings from many ancient civilisations made ample use of regular triangular, square and hexagonal tessellations and Euler later proved that these three are indeed the only three regular planar tessellations possible, sampling along only the square lattice has found use in forming digital images. The reasons for these are varied including extensibility to higher dimensions but the literature on the ramifications of this commitment to the square lattice for the dominant case of planar data is relatively limited. There seems to be neither a book nor a survey paper on the subject of alternatives. This book on hexagonal image processing is therefore quite appropriate. Lee Middleton and Jayanthi Sivaswamy well motivate the need for a certified study of hexagonal lattice and image processing in terms of their known uses in biological systems as well as computational and other theoretical and practical advantages that accrue from this approach. They present the state of the art of hexagonal image processing and a comparative study of processing images sampled using hexagonal and square grids.

Progress in Pattern Recognition Sameer Singh, Maneesha Singh, 2007-08-03 This book features a collection of articles presented at the 2007 Workshop on Advances in Pattern Recognition which was organized in conjunction with the 5th International Summer School on Pattern

Recognition It provides readers with the state of the art algorithms in the area of pattern recognition as well as a presentation of the cutting edge applications within the field **Combinatorial Image Analysis** Reneta P.

Barneva,Valentin E. Brimkov,Jake K. Aggarwal,2012-11-14 This volume constitutes the refereed proceedings of the 15th International Workshop on Combinatorial Image Analysis IWCIA 2012 held in Austin TX USA in November 2012 The 23 revised full papers presented were carefully reviewed and selected from numerous submissions The topics covered include digital geometry combinatorics in digital spaces digital curves and surfaces digital topology grammars transformation applications grammars and models in image analysis picture transformations morphologic operations image segmentation and discrete tomography applications **Creating New Medical Ontologies for Image Annotation** Liana

Stanescu,Dumitru Dan Burdescu,Marius Brezovan,Cristian Gabriel Mihai,2011-12-16 Creating New Medical Ontologies for Image Annotation focuses on the problem of the medical images automatic annotation process which is solved in an original manner by the authors All the steps of this process are described in detail with algorithms experiments and results The original algorithms proposed by authors are compared with other efficient similar algorithms In addition the authors treat the problem of creating ontologies in an automatic way starting from Medical Subject Headings MESH They have presented some efficient and relevant annotation models and also the basics of the annotation model used by the proposed system Cross Media Relevance Models Based on a text query the system will retrieve the images that contain objects described by the keywords *Intelligent Systems in Science and Information 2014* Kohei Arai,Supriya Kapoor,Rahul Bhatia,2015-02-13 The book Intelligent Systems in Science and Information 2014 is the carefully edited collection of 25 extended chapters from selected papers in the field of Computational Intelligence that which received highly recommended feedback during the Science and Information Conference SAI 2014 review process All chapters have gone through substantial extension and consolidation and were subject to another round of rigorous review and additional modification and represent the state of the art of the cutting edge research and technologies in the related areas **Computational Intelligence, Cyber Security and Computational Models** G. Sai Sundara Krishnan,R. Anitha,R. S. Lekshmi,M. Senthil Kumar,Anthony Bonato,Manuel

Graña,2013-11-26 This book contains cutting edge research material presented by researchers engineers developers and practitioners from academia and industry at the International Conference on Computational Intelligence Cyber Security and Computational Models ICC3 organized by PSG College of Technology Coimbatore India during December 19 21 2013 The materials in the book include theory and applications to provide design analysis and modeling of the key areas The book will be useful material for students researchers professionals as well academicians in understanding current research trends and findings and future scope of research in computational intelligence cyber security and computational models

Computational Modeling of Objects Presented in Images. Fundamentals, Methods, and Applications Reneta P.

Barneva,Valentin E. Brimkov,João Manuel R.S. Tavares,2017-03-09 This book constitutes the refereed post conference

proceedings of the 5th International Conference on Computational Modeling of Objects Presented in Images CompIMAGE 2016 held in Niagara Falls NY USA in September 2016 The 18 revised full papers presented together with 1 invited paper were carefully reviewed and selected from 30 submissions The papers cover the following topics theoretical contributions and application driven contributions **Discrete Geometry for Computer Imagery** Walter G. Kropatsch,Nicole M. Artner,Ines Janusch,2017-09-01 This book constitutes the thoroughly refereed proceedings of the 20th IAPR International Conference on Discrete Geometry for Computer Imagery DGCi 2017 held in Vienna Austria in September 2017 The 28 revised full papers presented together with 3 invited talks were carefully selected from 36 submissions The papers are organized in topical sections on geometric transforms discrete tomography discrete modeling and visualization morphological analysis discrete shape representation recognition and analysis discrete and combinatorial topology discrete models and tools models for discrete geometry **Digital Document Processing** Bidyut B. Chaudhuri,2007-03-13 In this book all the major and frontier topics in the field of document analysis are brought together into a single volume creating a unique reference source Highlights include Document structure analysis followed by OCR of Japanese Tibetan and Indian printed scripts Online and offline handwritten text recognition approaches Japanese postal and Arabic check processing Document image quality modelling mathematical expression recognition graphics recognition document information retrieval super resolution text metadata extraction in digital library Biometric and forensic aspects individuality of handwriting detection Web document analysis text and hypertext mining and bank check data mining Containing chapters written by some of the most eminent researchers active in this field this book can serve as a handbook for the research scholar as well as a supporting book for advanced graduate students interested in document processing or image analysis Computational Modelling of Objects Represented in Images III Paolo Di Giambardino,Daniela Iacoviello,João Manuel R.S. Tavares,R.M. Natal Jorge,2012-08-24 Computational Modelling of Objects Represented in Images Fundamentals Methods and Applications III contains all contributions presented at the International Symposium CompIMAGE 2012 Computational Modelling of Object Presented in Images Fundamentals Methods and Applications Rome Italy 5 7 September 2012 The contributions cover the state of art and new trends in the fields of 3D Vision Biometric Recognition Computational Bioimaging and Visualization Computer Vision in Robotics and Automation Data Acquisition Interpolation Registration and Compression Image Enhancement and Restoring Image Processing and Analysis Image Segmentation Medical Imaging Modeling and Simulation Motion and Deformation Analysis Remote Sensing Scientific Visualization Computational Modelling of Objects Represented in Images Fundamentals Methods and Applications III addresses different techniques such as optimization methods geometry finite element method principal component analysis stochastic methods neural networks and fuzzy logic The book is useful to researchers and students with multidisciplinary interests related to Computational Vision Computational Mechanics Medicine Engineering and Architecture **Soft Computing for Problem Solving** Jagdish Chand Bansal,Kedar Nath Das,Atulya

Nagar,Kusum Deep,Akshay Kumar Ojha,2018-10-30 This two volume book presents outcomes of the 7th International Conference on Soft Computing for Problem Solving SocProS 2017 This conference is a joint technical collaboration between the Soft Computing Research Society Liverpool Hope University UK the Indian Institute of Technology Roorkee the South Asian University New Delhi and the National Institute of Technology Silchar and brings together researchers engineers and practitioners to discuss thought provoking developments and challenges in order to select potential future directions The book presents the latest advances and innovations in the interdisciplinary areas of soft computing including original research papers in the areas including but not limited to algorithms artificial immune systems artificial neural networks genetic algorithms genetic programming and particle swarm optimization and applications control systems data mining and clustering finance weather forecasting game theory business and forecasting applications It is a valuable resource for both young and experienced researchers dealing with complex and intricate real world problems for which finding a solution by traditional methods is a difficult task

Support Vector Machines for Pattern Classification Shigeo Abe,2005-07-29 Support vector machines SVMs were originally formulated for two class classification problems and have been accepted as a powerful tool for developing pattern classification and function approximations systems This book provides a unique perspective of the state of the art in SVMs by taking the only approach that focuses on classification rather than covering the theoretical aspects The book clarifies the characteristics of two class SVMs through their extensive analysis presents various useful architectures for multiclass classification and function approximation problems and discusses kernel methods for improving generalization ability of conventional neural networks and fuzzy systems Ample illustrations examples and computer experiments are included to help readers understand the new ideas and their usefulness This book supplies a comprehensive resource for the use of SVMs in pattern classification and will be invaluable reading for researchers developers students in academia and industry

Automatic Speech Recognition on Mobile Devices and over Communication Networks Zheng-Hua Tan,Boerge Lindberg,2008-04-17 The advances in computing and networking have sparked an enormous interest in deploying automatic speech recognition on mobile devices and over communication networks This book brings together academic researchers and industrial practitioners to address the issues in this emerging realm and presents the reader with a comprehensive introduction to the subject of speech recognition in devices and networks It covers network distributed and embedded speech recognition systems

Image Processing and Pattern Recognition Based on Parallel Shift Technology Stepan Bilan,Sergey Yuzhakov,2018-01-29 This book describes the methods and algorithms for image pre processing and recognition These methods are based on a parallel shift technology of the imaging copy as well as simple mathematical operations to allow the generation of a minimum set of features to describe and recognize the image This book also describes the theoretical foundations of parallel shift technology and pattern recognition Based on these methods and theories this book is intended to help researchers with artificial intelligence systems design robotics and developing software

and hardware applications Monte Carlo and Quasi-Monte Carlo Methods 2006 Alexander Keller, Stefan Heinrich, Harald Niederreiter, 2007-12-30 This book presents the refereed proceedings of the Seventh International Conference on Monte Carlo and Quasi Monte Carlo Methods in Scientific Computing held in Ulm Germany in August 2006 The proceedings include carefully selected papers on many aspects of Monte Carlo and quasi Monte Carlo methods and their applications They also provide information on current research in these very active areas American Book Publishing Record ,2005 Biometric Data in Smart Cities Stepan Bilan, Mykola Bilan, Ruslan Motornyyuk, Serhii Yuzhakov, 2021-07-18 In modern conditions of the development of intelligent systems to solve the problems of smart cities more and more attention is paid to the construction of distributed intelligent systems which based on a network of sensors and specialized calculators help residents and visitors of the city in real time to solve a whole range of complex problems that arise in an urban environment In a smart city much attention is paid to the processing of biometric information that comes from biometric sensors distributed throughout the city Such biometric systems are multimodal and allow you to control the general condition of a person and also help a person to move around the city and predict events within the city This book describes methods for processing biometric information in a smart city environment The theoretical foundations of building a biometric multisensor network which allows you to create a unified urban biometric community are considered The theoretical foundations of the parallel shift technology and the Radon transformation on cellular automata with a hexagonal covering are presented On the basis of these technologies methods of biometric identification by gait parameters and the geometric shape of the auricle are described which are effectively used in a smart city A method for tracking dynamic changes in the state of a smart city in real time is considered Models of behavior of colonies of living organisms their formation movement and interaction are described on the basis of the technology of cellular automata with active cells Models of behavior of active cells in meeting with unwanted cells and models of combining and destruction of active cell colonies are also described This book is intended for undergraduate graduate students and specialists working and conducting research in the field of biometric information processing as well as in the development and construction of distributed intelligent systems *The British National Bibliography* Arthur James Wells, 2005 *Analysis and Control of Complex Dynamical Systems* Kazuyuki Aihara, Jun-ichi Imura, Tetsushi Ueta, 2015-03-20 This book is the first to report on theoretical breakthroughs on control of complex dynamical systems developed by collaborative researchers in the two fields of dynamical systems theory and control theory As well its basic point of view is of three kinds of complexity bifurcation phenomena subject to model uncertainty complex behavior including periodic quasi periodic orbits as well as chaotic orbits and network complexity emerging from dynamical interactions between subsystems Analysis and Control of Complex Dynamical Systems offers a valuable resource for mathematicians physicists and biophysicists as well as for researchers in nonlinear science and control engineering allowing them to develop a better fundamental understanding of the analysis and control synthesis of such complex systems

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