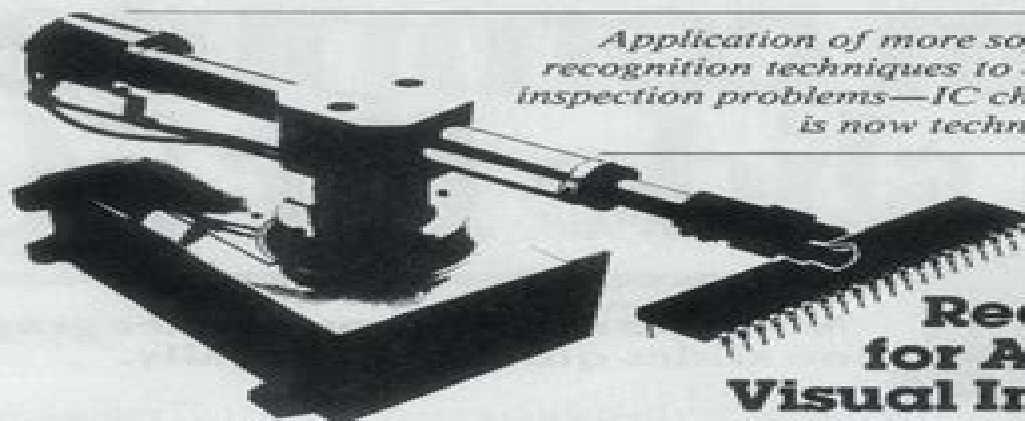




Application of more sophisticated pattern recognition techniques to difficult automatic inspection problems—IC chips, for example—is now technologically feasible.

Pattern Recognition for Automatic Visual Inspection

King-san Fu, Purdue University

The many methods proposed for designing a pattern recognition system can be grouped into three major categories: the template matching approach,¹ the decision-theoretic or discriminant approach,²⁻¹⁰ and the syntactic and structural approach.¹¹⁻¹³ From a more general viewpoint, these approaches can be discussed in terms of pattern representation and decision making (see Figure 1). Primarily, the pattern representation subproblem involves selection of the representation, and the decision-making subproblem involves selection of a decision criterion or similarity measure. Other approaches include problem-solving models,¹⁴ category theory,¹⁵ and relation theory.¹⁶

Template matching. In the template-matching approach, a set of templates or prototypes, one for each pattern class, is stored in the machine. The input pattern is matched or compared with the template of each class, and the classification is based on a preselected matching criterion or similarity measure (e.g., correlation). In other words, if the input pattern matches the template of the i th pattern class better than it matches any other template, then the input pattern is classified as being from the i th pattern class. For machine simplicity, input patterns and the templates are usually represented in their raw data form, and the decision-making process simply matches the unknown input to each template.

The template-matching approach has been used in printed-character recognizers and bank check readers. The main difficulties with this approach lie in selecting a good template for each pattern class and in defining an appropriate matching criterion, especially when large variations and distortions are expected in the patterns under study. Recently, the use of flexible template-matching or "rubber mask" techniques has been proposed.¹⁷

Decision theoretic. In the decision-theoretic approach, a pattern is represented by a set of N features or an N -dimensional feature vector, and the decision-making process is based on a similarity measure, which, in turn, is expressed in terms of a distance measure or a discriminant function. Statistical and fuzzy-set methods have been proposed¹⁸ for considering noise and distortions. The characterization of each pattern class could be in terms of an N -dimensional class-conditional probability density function or a fuzzy set, and the classification (decision making) of patterns could then be based on a (parametric or nonparametric) statistical decision rule or (fuzzy) membership function. A block diagram of a decision-theoretic pattern recognition system is given in Figure 2.

The template-matching approach could be regarded as a special case of the decision-theoretic approach. In such a case, each pattern is represented by a feature vector, and the decision-making process is based on a simple similarity criterion like correlation.

Applications of decision-theoretic pattern recognition include character recognition, biomedical data analysis and diagnostic decision making, remote sensing, target detection and identification, failure analysis and diagnosis of engineering systems, machine parts recognition and inspection in the automation of manufacturing processes, processing of seismic waves, modeling of socio-economic systems, and classification of ancient objects in archaeology.¹⁹

Structural/syntactic. In the structural and syntactic approach, a pattern is often represented as a string, a tree, or a graph of pattern primitives and their relations. The decision-making process is, in general, a syntax analysis or parsing procedure. Special cases include the use of similarity (or distance) measures between two strings,

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L.N. Kanal,A. Rosenfeld



Automatic Visual Inspection Ieee Computer Society:

Applications of Pattern Recognition King-Sun Fu, 2019-07-22 This monograph is intended to cover several major applications of pattern recognition After a brief introduction to pattern recognition in Chapter 1 the two major approaches statistical approach and syntactic approach are reviewed in Chapter 2 and 3 respectively Other topics include the application of pattern recognition to seismic wave interpretation to system reliability problems to medical data analysis as well as character and speech recognition

Computer Vision, Imaging and Computer Graphics: Theory and Applications Alpesh Kumar Ranchordas, Joao Madeiras Pereira, Hélder J. Araújo, Joao Tavares, 2010-09-09 This book includes extended versions of the selected papers from VISIGRAPP 2009 the International Joint Conference on Computer Vision Imaging and Computer Graphics Theory and Applications which was held in Lisbon Portugal during February 5 8 2009 and organized by the Institute for Systems and Technologies of Information Control and Communication INSTICC VISIGRAPP comprises three component conferences namely the International Conference on Computer Vision Theory and Applications VISAPP the International Conference on Computer Graphics Theory and Applications GRAPP and the International Conference on Imaging Theory and Applications IMAGAPP VISIGRAPP received a total of 422 paper submissions from more than 50 countries From these and after a rigorous double blind evaluation method 72 papers were published as full papers These figures show that this conference is now an established venue for researchers in the broad fields of computer vision computer graphics and image analysis From the full papers 25 were selected for inclusion in this book The selection process was based on the scores assigned by the Program Committee reviewers as well as the Session Chairs After selection the papers were further revised and extended by the authors Our gratitude goes to all contributors and referees without whom this book would not have been possible

Advances in Machine Vision Jorge L.C. Sanz, 2012-12-06 Machine Vision technology is becoming an indispensable part of the manufacturing industry Biomedical and scientific applications of machine vision and imaging are becoming more and more sophisticated and new applications continue to emerge This book gives an overview of ongoing research in machine vision and presents the key issues of scientific and practical interest A selected board of experts from the US Japan and Europe provides an insight into some of the latest work done on machine vision systems and applications

Pattern Formation by Dynamic Systems and Pattern Recognition Hermann Haken, 2012-12-06 This book contains the manuscripts of the papers delivered at the International Symposium on Synergetics held at Schloss Elmau Bavaria Germany from April 30 until May 5 1979 This conference followed several previous ones Elmau 1972 Sicily 1974 Elmau 1977 This time the subject of the symposium was pattern formation by dynamic systems and pattern recognition The meeting brought together scientists from such diverse fields as mathematics physics chemistry biology history as well as experts in the fields of pattern recognition and associative memory When I started this type of conference in 1972 it appeared to be a daring enterprise Indeed we began to explore virgin land of science the systematic study of cooperative effects in physical systems far from

equilibrium and in other disciplines Though these meetings were attended by scientists from quite different disciplines a basic concept and even a common language were found from the very beginning The idea that there exist profound analogies in the behaviour of large classes of complex systems though the systems themselves may be quite different proved to be most fruitful I was delighted to see that over the past one or two years quite similar conferences were now held in various places all over the world The inclusion of problems of pattern recognition at the present meeting is a novel feature however

Robot Vision Azriel Rosenfeld, Society of Photo-optical Instrumentation Engineers, 1982 **Progress in Pattern**

Recognition 1 L.N. Kanal, A. Rosenfeld, 2014-06-28 Progress in Pattern Recognition 1 Syntactic And Structural Pattern Recognition - Theory And Applications Horst Bunke, Alberto Sanfeliu, 1990-01-01 This book is currently the only one on this subject containing both introductory material and advanced recent research results It presents at one end fundamental concepts and notations developed in syntactic and structural pattern recognition and at the other reports on the current state of the art with respect to both methodology and applications In particular it includes artificial intelligence related techniques which are likely to become very important in future pattern recognition The book consists of individual chapters written by different authors The chapters are grouped into broader subject areas like Syntactic Representation and Parsing Structural Representation and Matching Learning etc Each chapter is a self contained presentation of one particular topic In order to keep the original flavor of each contribution no efforts were undertaken to unify the different chapters with respect to notation Naturally the self containedness of the individual chapters results in some redundancy However we believe that this handicap is compensated by the fact that each contribution can be read individually without prior study of the preceding chapters A unification of the spectrum of material covered by the individual chapters is provided by the subject and author index included at the end of the book *A Guide for Machine Vision in Quality Control* Sheila Anand, L. Priya, 2019-12-23

Machine Vision systems combine image processing with industrial automation One of the primary areas of application of Machine Vision in the Industry is in the area of Quality Control Machine vision provides fast economic and reliable inspection that improves quality as well as business productivity Building machine vision applications is a challenging task as each application is unique with its own requirements and desired outcome A Guide to Machine Vision in Quality Control follows a practitioner's approach to learning machine vision The book provides guidance on how to build machine vision systems for quality inspections Practical applications from the Industry have been discussed to provide a good understanding of usage of machine vision for quality control Real world case studies have been used to explain the process of building machine vision solutions The book offers comprehensive coverage of the essential topics that includes Introduction to Machine Vision Fundamentals of Digital Images Discussion of various machine vision system components Digital image processing related to quality control Overview of automation The book can be used by students and academics as well as by industry professionals to understand the fundamentals of machine vision Updates to the on going technological innovations have been provided

with a discussion on emerging trends in machine vision and smart factories of the future Sheila Anand is a PhD graduate and Professor at Rajalakshmi Engineering College Chennai India She has over three decades of experience in teaching consultancy and research She has worked in the software industry and has extensive experience in development of software applications and in systems audit of financial manufacturing and trading organizations She guides Ph D aspirants and many of her research scholars have since been awarded their doctoral degree She has published many papers in national and international journals and is a reviewer for several journals of repute L Priya is a PhD graduate working as Associate Professor and Head Department of Information Technology at Rajalakshmi Engineering College Chennai India She has nearly two decades of teaching experience and good exposure to consultancy and research She has delivered many invited talks presented papers and won several paper awards in International Conferences She has published several papers in International journals and is a reviewer for SCI indexed journals Her areas of interest include Machine Vision Wireless Communication and Machine Learning

Applications of Computer Vision in Fashion and Textiles Calvin Wong, 2017-10-20 Applications of Computer Vision in Fashion and Textiles provides a systematic and comprehensive discussion of three key areas that are taking advantage of developments in computer vision technology namely textile defect detection and quality control fashion recognition and 3D modeling and 2D and 3D human body modeling for improving clothing fit It introduces the fundamentals of computer vision techniques for fashion and textile applications also reviewing computer vision techniques for textile quality control including chapters on wavelet transforms Gabor filters Fourier transforms and neural network techniques Final sections cover recognition modeling retrieval technologies and advanced human shape modeling techniques The book is essential reading for scientists and researchers working in the field of fashion production quality assurance product development textiles fashion supply chain managers R D professionals and managers in the textile industry Explores computer vision technology with reference to improving budget quality and schedule control in textile manufacturing Provides a thorough understanding of the role of computer vision in developing intelligent systems for the fashion and textiles industries Elucidates the connections between human body modeling technology and intelligent manufacturing systems

Steel 4.0 Yilmaz Uygun, Atilla Özgür, Marc-Thorsten Hütt, 2024-07-03 This book addresses digitalization and the steel industry It is written from the perspective of both industrial engineering and data science and discusses digitalization problems novel production planning and scheduling algorithms in ironmaking and steelmaking machine learning applications and opportunities in steel plants and quality related algorithms in steel plants Even though digitalization is an important trend in steel industry current contributions mainly focus on lower automation levels i e field and control levels that are mainly covered in mechanical electrical and material engineering domains On higher planning levels there are hardly comprehensive scientific contributions on intelligent digitalization issues available This book fills this gap

Computer and Machine Vision E. R. Davies, 2012-03-05 Computer and Machine Vision Theory Algorithms Practicalities previously entitled

Machine Vision clearly and systematically presents the basic methodology of computer and machine vision covering the essential elements of the theory while emphasizing algorithmic and practical design constraints This fully revised fourth edition has brought in more of the concepts and applications of computer vision making it a very comprehensive and up to date tutorial text suitable for graduate students researchers and R the first of these has been widely used internationally for more than 20 years and is now out in this much enhanced fourth edition Roy holds a DSc at the University of London and has been awarded Distinguished Fellow of the British Machine Vision Association and Fellow of the International Association of Pattern Recognition

Ultrasonic and Advanced Methods for Nondestructive Testing and Material

Characterization C. H. Chen,2007 Ultrasonic methods have been very popular in nondestructive testing and characterization of materials This book deals with both industrial ultrasound and medical ultrasound The advantages of ultrasound include flexibility low cost in line operation and providing data in both signal and image formats for further analysis The book devotes 11 chapters to ultrasonic methods However ultrasonic methods can be much less effective with some applications So the book also has 14 chapters catering to other or advanced methods for nondestructive testing or material characterization Topics like structural health monitoring Terahertz methods X ray and thermography methods are presented Besides different sensors for nondestructive testing the book places much emphasis on signal image processing and pattern recognition of the signals acquired

Advances in Image and Video Technology Domingo Mery,Luis Rueda,2007-12-07 This book constitutes the refereed proceedings of the Second Pacific Rim Symposium on Image and Video Technology PSIVT 2007 held in Santiago Chile in December 2007 The 75 revised full papers presented together with four keynote lectures were carefully reviewed and selected from 155 submissions The symposium features ongoing research including all aspects of video and multimedia both technical and artistic perspectives and both theoretical and practical issues

Intelligent Robots and Computer Vision ,1993

Industry Automation: The Technologies, Platforms and

Use Cases Pethuru Raj,Abhishek Kumar,Ananth Kumar,Neha Singhal,2024-08-23 This book details cutting edge technologies versatile tools adaptive processes integrated platforms and best practices of digitized systems With the faster maturity and stability of digitization and digitalization technologies all kinds of physical mechanical and electrical systems in our everyday environments homes hotels hospitals manufacturing floors etc have become digitized systems Such technology has empowered systems to gain the power to join and contribute to fulfilling the goals of modern computing Such digitized entities assist in producing and deploying hugely complicated yet sophisticated context aware services and applications The other principal contribution is capturing environmental data in real time and enabling local data processing to bring forth actionable insights This facilitates insight driven decisions and deeds Precisely speaking the aspects of real time knowledge discovery and dissemination enable the creation and delivery of real time and real world features and functionalities All industrial artifacts are being digitized connected and empowered to be cognitive in their operations offerings and outputs By

smartly leveraging a dazzling array of digital technologies and tools the interaction and collaboration with human experts becomes hugely simplified and speeded up considerably Such cognition enabled industrial machineries equipment appliances assembly lines robots vehicles drones and other assets collectively provide an intelligent environment to envisage and realize state of the art industry 4 0 and 5 0 applications Every industrial process gets optimized and automated to produce next generation products to ensure customer delight to explore fresh avenues to enhance revenues and to embark on higher productivity In addition there are chapters illustrating industrial use cases infrastructure optimization technology assimilation and AI powered data analytics towards industry automation

The 19th International Conference on Soft Computing Models in Industrial and Environmental Applications SOCO 2024 Héctor Quintián, Emilio Corchado, Alicia Troncoso Lora, Hilde Pérez García, Esteban Jove, José Luis Calvo Rolle, Francisco Javier Martínez de Pisón, Pablo García Bringas, Francisco Martínez Álvarez, Álvaro Herrero Cosío, Paolo Fosci, 2024-11-19 This volume of Advances in Intelligent and Soft Computing contains accepted papers presented at the SOCO 2024 conference held in the beautiful and historic city of Salamanca Spain in October 2024 Soft computing represents a collection or set of computational techniques in machine learning computer science and some engineering disciplines that investigate simulate and analyze very complex issues and phenomena After a thorough peer review process the 18th SOCO 2023 International Program Committee selected 62 papers for publication in these conference proceedings representing an acceptance rate of 50% In this relevant edition a particular emphasis was put on organizing special sessions Four special sessions were organized related to relevant topics such as Machine Learning and Computer Vision in Industry 4 0 Intelligent Models and Frameworks for Smart Agriculture and Green Economy Computational Intelligence Applied to Modelling and Control of Engineering Systems and Applied Machine Learning 2nd Edition The selection of papers was extremely rigorous to maintain the high quality of the conference We want to thank the members of the Program Committees for their hard work during the reviewing process This is a crucial process for creating a high standard conference the SOCO conference would not exist without their help

Robot Vision A. Pugh, 2013-06-29 Over the past five years robot vision has emerged as a subject area with its own identity A text based on the proceedings of the Symposium on Computer Vision and Sensor based Robots held at the General Motors Research Laboratories Warren Michigan in 1978 was published by Plenum Press in 1979 This book edited by George G Dodd and Lothar Rosso probably represented the first identifiable book covering some aspects of robot vision The subject of robot vision and sensory controls RoViSeC occupied an entire international conference held in the Hilton Hotel in Stratford England in May 1981 This was followed by a second RoViSeC held in Stuttgart Germany in November 1982 The large attendance at the Stratford conference and the obvious interest in the subject of robot vision at international robot meetings provides the stimulus for this current collection of papers Users and researchers entering the field of robot vision for the first time will encounter a bewildering array of publications on all aspects of computer vision of which robot vision forms a part It

is the grey area dividing the different aspects of computer vision which is not easy to identify Even those involved in research sometimes find difficulty in separating the essential differences between vision for automated inspection and vision for robot applications Both of these are to some extent applications of pattern recognition with the underlying philosophy of each defining the techniques used

Computer Vision for X-Ray Testing Domingo Mery, Christian Pieringer, 2020-12-21 FIRST EDITION This accessible textbook presents an introduction to computer vision algorithms for industrially relevant applications of X ray testing Features introduces the mathematical background for monocular and multiple view geometry describes the main techniques for image processing used in X ray testing presents a range of different representations for X ray images explaining how these enable new features to be extracted from the original image examines a range of known X ray image classifiers and classification strategies discusses some basic concepts for the simulation of X ray images and presents simple geometric and imaging models that can be used in the simulation reviews a variety of applications for X ray testing from industrial inspection and baggage screening to the quality control of natural products provides supporting material at an associated website including a database of X ray images and a Matlab toolbox for use with the book s many examples

Color Image Processing Rastislav Lukac, Konstantinos N. Plataniotis, 2018-10-03 Color Image Processing Methods and Applications embraces two decades of extraordinary growth in the technologies and applications for color image processing The book offers comprehensive coverage of state of the art systems processing techniques and emerging applications of digital color imaging To elucidate the significant progress in specialized areas the editors invited renowned authorities to address specific research challenges and recent trends in their area of expertise The book begins by focusing on color fundamentals including color management gamut mapping and color constancy The remaining chapters detail the latest techniques and approaches to contemporary and traditional color image processing and analysis for a broad spectrum of sophisticated applications including Vector and semantic processing Secure imaging Object recognition and feature detection Facial and retinal image analysis Digital camera image processing Spectral and superresolution imaging Image and video colorization Virtual restoration of artwork Video shot segmentation and surveillance Color Image Processing Methods and Applications is a versatile resource that can be used as a graduate textbook or as stand alone reference for the design and the implementation of various image and video processing tasks for cutting edge applications This book is part of the Digital Imaging and Computer Vision series

Pattern Recognition Theory and Applications J. Kittler, V.W. Fu, L.F. Pau, 2012-12-06 This book is the outcome of the successful NATO Advanced Study Institute on Pattern Recognition Theory and Applications held at St Anne s College Oxford in April 1981 The aim of the meeting was to review the recent advances in the theory of pattern recognition and to assess its current and future practical potential The theme of the Institute the decision making aspects of pattern recognition with the emphasis on the novel hybrid approaches and its scope a high level tutorial coverage of pattern recognition methodologies counterpointed with contributed papers on advanced theoretical

topics and applications are faithfully reflected by the volume. The material is divided into five sections: 1 Methodology, 2 Image Understanding and Interpretation, 3 Medical Applications, 4 Speech Processing and Other Applications, 5 Panel Discussions. The first section covers a broad spectrum of pattern recognition methodologies including geometric, statistical, fuzzy set, syntactic, graph theoretic, and hybrid approaches. Its coverage of hybrid methods places the volume in a unique position among existing books on pattern recognition. The second section provides an extensive treatment of the topical problem of image understanding from both the artificial intelligence and pattern recognition points of view. The two application sections demonstrate the usefulness of the novel methodologies in traditional pattern recognition application areas. They address the problems of hardware/software implementation and of algorithm robustness, flexibility, and general reliability. The final section reports on a panel discussion held during the Institute.

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