Object Detection and Recognition in Digital Images

Object Detection And Recognition In Digital Images Theory And Practice

Kenneth Dawson-Howe

Object Detection And Recognition In Digital Images Theory And Practice:

Object Detection and Recognition in Digital Images Boguslaw Cyganek,2013-05-20 Object detection tracking and recognition in images are key problems in computer vision This book provides the reader with a balanced treatment between the theory and practice of selected methods in these areas to make the book accessible to a range of researchers engineers developers and postgraduate students working in computer vision and related fields Key features Explains the main theoretical ideas behind each method which are augmented with a rigorous mathematical derivation of the formulas their implementation in C and demonstrated working in real applications Places an emphasis on tensor and statistical based approaches within object detection and recognition Provides an overview of image clustering and classification methods which includes subspace and kernel based processing mean shift and Kalman filter neural networks and k means methods Contains numerous case study examples of mainly automotive applications Includes a companion website hosting full C implementation of topics presented in the book as a software library and an accompanying manual to the software platform

Object Detection and Recognition in Digital Images Bogusław Cyganek,2013 Object detection tracking and recognition in images are key problems in computer vision This book provides the reader with a balanced treatment between the theory and practice of selected methods in these areas to make the book accessible to a range of researchers engineers developers and postgraduate students working in computer vision and related fields Key features Explains the main theoretical ideas behind each method which are augmented with a rigorous mathematical derivation of the formulas their implementation in C and demonstrated working in real applications Places an emphasis on tensor and statistical based approaches within object detection and recognition Provides an overview of image clustering and classifi cation methods which includes subspace and kernel based processing mean shift and Kalman fi lter neural networks and k means methods Contains numerous case study examples of mainly automotive applications Includes a companion website hosting full C implementation of topics presented in the book as a software library and an accompanying manual to the software platform Companion Website http www wiley com go cyganekobject Deep Learning in Object Detection and Recognition Xiaoyue Jiang,Abdenour Hadid,Yanwei Pang,Eric Granger,Xiaoyi Feng,2018-09-11 This book discusses recent advances in object detection and recognition using deep learning methods which have achieved great success in the field of computer vision and image processing It provides a systematic and methodical overview of the latest developments in deep learning theory and its applications to computer vision illustrating them using key topics including object detection face analysis 3D object recognition and image retrieval The book offers a rich blend of theory and practice It is suitable for students researchers and practitioners interested in deep learning computer vision and beyond and can also be used as a reference book The comprehensive comparison of various deep learning applications helps readers with a basic understanding of machine learning and calculus grasp the theories and inspires applications in other computer vision tasks **Computer Vision** Pancham Shukla,Rajanikanth Aluvalu,Shilpa

Gite,Uma Maheswari,2023-02-20 This book focuses on the latest developments in the fields of visual AI image processing and computer vision It shows research in basic techniques like image pre processing feature extraction and enhancement along with applications in biometrics healthcare neuroscience and forensics The book highlights algorithms processes novel architectures and results underlying machine intelligence with detailed execution flow of models **Image Processing and Communications** Michał Choraś,Ryszard S. Choraś,2019-09-10 This book presents a selection of high quality peer reviewed research papers on various aspects of computer science and networks It not only discusses emerging applications of currently available solutions but also outlines potential future techniques and lines of research in pattern recognition image processing and communications Given its scope the book will be of considerable interest to researchers students and practitioners alike All papers gathered here were presented at the Image Processing and Communications Conference held in Bydgoszcz Poland on September 11 13 2019 A Practical Introduction to Computer Vision with OpenCV, Enhanced Edition Kenneth Dawson-Howe,2014-04-24 Explains the theory behind basic computer vision and provides a bridge from the theory to practical implementation using the industry standard OpenCV libraries Computer Vision is a rapidly expanding area and it is becoming progressively easier for developers to make use of this field due to the ready availability of high quality libraries such as OpenCV 2 This text is intended to facilitate the practical use of computer vision with the goal being to bridge the gap between the theory and the practical implementation of computer vision The book will explain how to use the relevant OpenCV library routines and will be accompanied by a full working program including the code snippets from the text This textbook is a heavily illustrated practical introduction to an exciting field the applications of which are becoming almost ubiquitous We are now surrounded by cameras for example cameras on computers cameras imaging difficult modalities such as ultrasound X ray MRI in hospitals and surveillance cameras This book is concerned with helping the next generation of computer developers to make use of all these images in order to develop systems which are more intuitive and interact with us in more intelligent ways Explains the theory behind basic computer vision and provides a bridge from the theory to practical implementation using the industry standard OpenCV libraries Offers an introduction to computer vision with enough theory to make clear how the various algorithms work but with an emphasis on practical programming issues Provides enough material for a one semester course in computer vision at senior undergraduate and Masters levels Includes the basics of cameras and images and image processing to remove noise before moving on to topics such as image histogramming binary imaging video processing to detect and model moving objects geometric operations edge detection features detection recognition in images Contains a large number of vision application problems to provide students with the opportunity to solve real problems Images or videos for these problems are provided in the resources associated with this book which include an enhanced eBook A Practical Introduction to Computer Vision with OpenCV Kenneth Dawson-Howe,2014-03-20 Explains the theory behind basic computer vision and provides a bridge from the theory to

practical implementation using the industry standard OpenCV libraries Computer Vision is a rapidly expanding area and it is becoming progressively easier for developers to make use of this field due to the ready availability of high quality libraries such as OpenCV 2 This text is intended to facilitate the practical use of computer vision with the goal being to bridge the gap between the theory and the practical implementation of computer vision The book will explain how to use the relevant OpenCV library routines and will be accompanied by a full working program including the code snippets from the text This textbook is a heavily illustrated practical introduction to an exciting field the applications of which are becoming almost ubiquitous We are now surrounded by cameras for example cameras on computers cameras imaging difficult modalities such as ultrasound X ray MRI in hospitals and surveillance cameras This book is concerned with helping the next generation of computer developers to make use of all these images in order to develop systems which are more intuitive and interact with us in more intelligent ways Explains the theory behind basic computer vision and provides a bridge from the theory to practical implementation using the industry standard OpenCV libraries Offers an introduction to computer vision with enough theory to make clear how the various algorithms work but with an emphasis on practical programming issues Provides enough material for a one semester course in computer vision at senior undergraduate and Masters levels Includes the basics of cameras and images and image processing to remove noise before moving on to topics such as image histogramming binary imaging video processing to detect and model moving objects geometric operations edge detection features detection recognition in images Contains a large number of vision application problems to provide students with the opportunity to solve real problems Images or videos for these problems are provided in the resources associated with this book which include an enhanced eBook *Image Processing and Communications Challenges 7* Ryszard S. Choraś,2015-10-14 This book contains papers accepted for IP C 2015 the International Conference on Image Processing and Communications held at UTP University of Science and Technology Bydgoszcz Poland September 9 11 2015 This conference was the eighth edition in the IP C series of annual conferences This book and the conference have the aim to bring together researchers and scientists in the broad fields of image processing and communications addressing recent advances in theory methodology and applications The book will be of interest to a large group of researchers engineers and practitioners in image processing and communications Developments in Medical Image Processing and Computational Vision João Manuel R. S. Tavares,Renato Natal Jorge,2015-04-07 This book presents novel and advanced topics in Medical Image Processing and Computational Vision in order to solidify knowledge in the related fields and define their key stakeholders It contains extended versions of selected papers presented in VipIMAGE 2013 IV International ECCOMAS Thematic Conference on Computational Vision and Medical Image which took place in Funchal Madeira Portugal 14 16 October 2013 The twenty two chapters were written by invited experts of international recognition and address important issues in medical image processing and computational vision including 3D vision 3D visualization colour quantisation continuum mechanics data

fusion data mining face recognition GPU parallelisation image acquisition and reconstruction image and video analysis image clustering image registration image restoring image segmentation machine learning modelling and simulation object detection object recognition object tracking optical flow pattern recognition pose estimation and texture analysis Different applications are addressed and described throughout the book comprising biomechanical studies bio structure modelling and simulation bone characterization cell tracking computer aided diagnosis dental imaging face recognition hand gestures detection and recognition human motion analysis human computer interaction image and video understanding image processing image segmentation object and scene reconstruction object recognition and tracking remote robot control and surgery planning This volume is of use to researchers students practitioners and manufacturers from several multidisciplinary fields such as artificial intelligence bioengineering biology biomechanics computational mechanics computational vision computer graphics computer science computer vision human motion imagiology machine learning machine vision mathematics medical image medicine pattern recognition and physics Artificial Intelligence in Daily Life Raymond S. T. Lee,2020-08-22 Given the exponential growth of Artificial Intelligence AI over the past few decades AI and its related applications have become part of daily life in ways that we could never have dreamt of only a century ago Our routines have been changed beyond measure by robotics and AI which are now used in a vast array of services Though AI is still in its infancy we have already benefited immensely This book introduces readers to basic Artificial Intelligence concepts and helps them understand the relationship between AI and daily life In the interest of clarity the content is divided into four major parts Part I AI Concepts presents fundamental concepts of and information on AI while Part II AI Technology introduces readers to the five core AI Technologies that provide the building blocks for various AI applications namely Machine Learning ML Data Mining DM Computer Vision CV Natural Languages Processing NLP and Ontology based Search Engine OSE In turn Part III AI Applications reviews major contemporary applications that are impacting our ways of life working styles and environment ranging from intelligent agents and robotics to smart campus and smart city projects Lastly Part IV Beyond AI addresses related topics that are vital to the future development of AI It also discusses a number of critical issues such as AI ethics and privacy the development of a conscious mind and autonomous robotics in our daily lives

Object Detection with Deep Learning Models S Poonkuntran,Rajesh Kumar Dhanraj,Balamurugan Balusamy,2022-11-01 Object Detection with Deep Learning Models discusses recent advances in object detection and recognition using deep learning methods which have achieved great success in the field of computer vision and image processing It provides a systematic and methodical overview of the latest developments in deep learning theory and its applications to computer vision illustrating them using key topics including object detection face analysis 3D object recognition and image retrieval The book offers a rich blend of theory and practice It is suitable for students researchers and practitioners interested in deep learning computer vision and beyond and can also be used as a reference book The comprehensive comparison of various

deep learning applications helps readers with a basic understanding of machine learning and calculus grasp the theories and inspires applications in other computer vision tasks Features A structured overview of deep learning in object detection A diversified collection of applications of object detection using deep neural networks Emphasize agriculture and remote sensing domains Exclusive discussion on moving object detection Applied Big Data Analytics and Its Role in COVID-19 Research Zhao, Peng,Chen, Xi,2022-04-29 There has been a multitude of studies focused on the COVID 19 pandemic across fields and disciplines as all sectors of life have had to adjust the way things are done and adapt to the constantly shifting environment These studies are crucial as they provide support and perspectives on how things are changing and what needs to be done to stay afloat Connecting COVID 19 related studies and big data analytics is crucial for the advancement of industrial applications and research areas Applied Big Data Analytics and Its Role in COVID 19 Research introduces the most recent industrial applications and research topics on COVID 19 with big data analytics Featuring coverage on a broad range of big data technologies such as data gathering artificial intelligence smart diagnostics and mining mobility this publication provides concrete examples and cases of usage of data driven projects in COVID 19 research This reference work is a vital resource for data scientists technical managers researchers scholars practitioners academicians instructors and students

Pattern Recognition in Practice Edzard S. Gelsema,Laveen N. Kanal,1980 **SPIE 1991 Publications Index** ,1992 *Computers, Control & Information Theory* ,1985 *Towards Neuroscience-Inspired Intelligent Computing: Theory, Methods, and Applications* Di Wu,Song Deng,Yujie Li,2023-04-03 **Applications of Digital Image Processing** ,1994 *SPIE ... Publications Index* ,1991 **Artificial Intelligence Abstracts** ,1991 **Optics Index** ,1980

The book delves into Object Detection And Recognition In Digital Images Theory And Practice. Object Detection And Recognition In Digital Images Theory And Practice is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Object Detection And Recognition In Digital Images Theory And Practice, encompassing both the fundamentals and more intricate discussions.

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    - Chapter 4: Object Detection And Recognition In Digital Images Theory And Practice in Specific Contexts
    - Chapter 5: Conclusion
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3. In chapter 2, this book will delve into the foundational concepts of Object Detection And Recognition In Digital Images Theory And Practice. The second chapter will elucidate the essential principles that must be understood to grasp Object Detection And Recognition In Digital Images Theory And Practice in its entirety.
4. In chapter 3, the author will examine the practical applications of Object Detection And Recognition In Digital Images Theory And Practice in daily life. The third chapter will showcase real-world examples of how Object Detection And Recognition In Digital Images Theory And Practice can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Object Detection And Recognition In Digital Images Theory And Practice in specific contexts. This chapter will explore how Object Detection And Recognition In Digital Images Theory And Practice is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Object Detection And Recognition In Digital Images Theory And Practice. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Object Detection And Recognition In Digital Images Theory And Practice.

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