

Kristen Grauman · Bastian Leibe

# Visual Object Recognition

# Visual Object Recognition Bastian Leibe

**Ning Xu, Weiyao Lin, Xiankai  
Lu, Yunchao Wei**



## **Visual Object Recognition Bastian Leibe:**

Visual Object Recognition Kristen Grauman, Bastian Leibe, 2022-05-31 The visual recognition problem is central to computer vision research From robotics to information retrieval many desired applications demand the ability to identify and localize categories places and objects This tutorial overviews computer vision algorithms for visual object recognition and image classification We introduce primary representations and learning approaches with an emphasis on recent advances in the field The target audience consists of researchers or students working in AI robotics or vision who would like to understand what methods and representations are available for these problems This lecture summarizes what is and isn't possible to do reliably today and overviews key concepts that could be employed in systems requiring visual categorization Table of Contents Introduction Overview Recognition of Specific Objects Local Features Detection and Description Matching Local Features Geometric Verification of Matched Features Example Systems Specific Object Recognition Overview Recognition of Generic Object Categories Representations for Object Categories Generic Object Detection Finding and Scoring Candidates Learning Generic Object Category Models Example Systems Generic Object Recognition Other Considerations and Current Challenges Conclusions Representations and Techniques for 3D Object Recognition and Scene Interpretation Derek Hoiem, Silvio Savarese, 2022-05-31 One of the grand challenges of artificial intelligence is to enable computers to interpret 3D scenes and objects from imagery This book organizes and introduces major concepts in 3D scene and object representation and inference from still images with a focus on recent efforts to fuse models of geometry and perspective with statistical machine learning The book is organized into three sections 1 Interpretation of Physical Space 2 Recognition of 3D Objects and 3 Integrated 3D Scene Interpretation The first discusses representations of spatial layout and techniques to interpret physical scenes from images The second section introduces representations for 3D object categories that account for the intrinsically 3D nature of objects and provide robustness to change in viewpoints The third section discusses strategies to unite inference of scene geometry and object pose and identity into a coherent scene interpretation Each section broadly surveys important ideas from cognitive science and artificial intelligence research organizes and discusses key concepts and techniques from recent work in computer vision and describes a few sample approaches in detail Newcomers to computer vision will benefit from introductions to basic concepts such as single view geometry and image classification while experts and novices alike may find inspiration from the book's organization and discussion of the most recent ideas in 3D scene understanding and 3D object recognition Specific topics include mathematics of perspective geometry visual elements of the physical scene structural 3D scene representations techniques and features for image and region categorization historical perspective computational models and datasets and machine learning techniques for 3D object recognition inferences of geometrical attributes of objects such as size and pose and probabilistic and feature passing approaches for contextual reasoning about 3D objects and scenes Table of Contents Background on 3D Scene Models Single

view Geometry Modeling the Physical Scene Categorizing Images and Regions Examples of 3D Scene Interpretation Background on 3D Recognition Modeling 3D Objects Recognizing and Understanding 3D Objects Examples of 2D 1 2 Layout Models Reasoning about Objects and Scenes Cascades of Classifiers Conclusion and Future Directions Multi-Objective Decision Making Diederik M. Roijers, Shimon Whiteson, 2022-05-31 Many real world decision problems have multiple objectives For example when choosing a medical treatment plan we want to maximize the efficacy of the treatment but also minimize the side effects These objectives typically conflict e g we can often increase the efficacy of the treatment but at the cost of more severe side effects In this book we outline how to deal with multiple objectives in decision theoretic planning and reinforcement learning algorithms To illustrate this we employ the popular problem classes of multi objective Markov decision processes MOMDPs and multi objective coordination graphs MO CoGs First we discuss different use cases for multi objective decision making and why they often necessitate explicitly multi objective algorithms We advocate a utility based approach to multi objective decision making i e that what constitutes an optimal solution to a multi objective decision problem should be derived from the available information about user utility We show how different assumptions about user utility and what types of policies are allowed lead to different solution concepts which we outline in a taxonomy of multi objective decision problems Second we show how to create new methods for multi objective decision making using existing single objective methods as a basis Focusing on planning we describe two ways to creating multi objective algorithms in the inner loop approach the inner workings of a single objective method are adapted to work with multi objective solution concepts in the outer loop approach a wrapper is created around a single objective method that solves the multi objective problem as a series of single objective problems After discussing the creation of such methods for the planning setting we discuss how these approaches apply to the learning setting Next we discuss three promising application domains for multi objective decision making algorithms energy health and infrastructure and transportation Finally we conclude by outlining important open problems and promising future directions A Short Introduction to Preferences Francesca Rossi, Kristen Brent Venable, Toby Walsh, 2022-06-01 Computational social choice is an expanding field that merges classical topics like economics and voting theory with more modern topics like artificial intelligence multiagent systems and computational complexity This book provides a concise introduction to the main research lines in this field covering aspects such as preference modelling uncertainty reasoning social choice stable matching and computational aspects of preference aggregation and manipulation The book is centered around the notion of preference reasoning both in the single agent and the multi agent setting It presents the main approaches to modeling and reasoning with preferences with particular attention to two popular and powerful formalisms soft constraints and CP nets The authors consider preference elicitation and various forms of uncertainty in soft constraints They review the most relevant results in voting with special attention to computational social choice Finally the book considers preferences in matching problems The book is intended for students

and researchers who may be interested in an introduction to preference reasoning and multi agent preference aggregation and who want to know the basic notions and results in computational social choice Table of Contents Introduction Preference Modeling and Reasoning Uncertainty in Preference Reasoning Aggregating Preferences Stable Marriage Problems

**Answer Set Solving in Practice** Martin Gebser,Roland Kaminski,Benjamin Kaufmann,Torsten Schaub,2022-05-31

Answer Set Programming ASP is a declarative problem solving approach initially tailored to modeling problems in the area of Knowledge Representation and Reasoning KRR More recently its attractive combination of a rich yet simple modeling language with high performance solving capacities has sparked interest in many other areas even beyond KRR This book presents a practical introduction to ASP aiming at using ASP languages and systems for solving application problems

Starting from the essential formal foundations it introduces ASP s solving technology modeling language and methodology while illustrating the overall solving process by practical examples Table of Contents List of Figures List of Tables Motivation Introduction Basic modeling Grounding Characterizations Solving Systems Advanced modeling Conclusions [Introduction to Logic Programming](#)

Michael Genesereth,Vinay K. Chaudhri,2022-06-01 Logic Programming is a style of programming in which programs take the form of sets of sentences in the language of Symbolic Logic Over the years there has been growing interest in Logic Programming due to applications in deductive databases automated worksheets Enterprise Management business rules Computational Law and General Game Playing This book introduces Logic Programming theory current technology and popular applications In this volume we take an innovative model theoretic approach to logic programming We begin with the fundamental notion of datasets i e sets of ground atoms Given this fundamental notion we introduce views i e virtual relations and we define classical logic programs as sets of view definitions written using traditional Prolog like notation but with semantics given in terms of datasets rather than implementation We then introduce actions i e additions and deletions of ground atoms and we define dynamic logic programs as sets of action definitions In addition to the printed book there is an online version of the text with an interpreter and a compiler for the language used in the text and an integrated development environment for use in developing and deploying practical logic programs *Proceedings of 2nd*

*International Conference on Computer Vision & Image Processing* Bidyut B. Chaudhuri,Mohan S.

Kankanhalli,Balasubramanian Raman,2018-04-11 The book provides insights into the Second International Conference on Computer Vision image video formation and display image video filtering restoration enhancement and super resolution image video coding and transmission image video storage retrieval and authentication image video quality transform based and multi resolution image video analysis biological and perceptual models for image video processing machine learning in image video analysis probability and uncertainty handling for image video processing motion and tracking segmentation and recognition shape structure and stereo *Advancement of Deep Learning and its Applications in Object Detection and*

*Recognition* Roohie Naaz Mir,Vipul Kumar Sharma,Ranjeet Kumar Rout,Saiyed Umer,2023-05-10 Object detection is a basic

visual identification problem in computer vision that has been explored extensively over the years Visual object detection seeks to discover objects of specific target classes in a given image with pinpoint accuracy and apply a class label to each object instance Object recognition strategies based on deep learning have been intensively investigated in recent years as a result of the remarkable success of deep learning based image categorization In this book we go through in detail detector architectures feature learning proposal generation sampling strategies and other issues that affect detection performance The book describes every newly proposed novel solution but skips through the fundamentals so that readers can see the field s cutting edge more rapidly Moreover unlike prior object detection publications this project analyses deep learning based object identification methods systematically and exhaustively and also gives the most recent detection solutions and a collection of noteworthy research trends The book focuses primarily on step by step discussion an extensive literature review detailed analysis and discussion and rigorous experimentation results Furthermore a practical approach is displayed and encouraged

*Toward Category-Level Object Recognition* Jean Ponce,Martial Hebert,Cordelia Schmid,Andrew Zisserman,2007-01-25 This volume is a post event proceedings volume and contains selected papers based on presentations given and vivid discussions held during two workshops held in Taormina in 2003 and 2004 The 30 thoroughly revised papers presented are organized in the following topical sections recognition of specific objects recognition of object categories recognition of object categories with geometric relations and joint recognition and segmentation **ECAI 2016** G.A. Kaminka,M. Fox,P. Bouquet,2016-08-24 Artificial Intelligence continues to be one of the most exciting and fast developing fields of computer science This book presents the 177 long papers and 123 short papers accepted for ECAI 2016 the latest edition of the biennial European Conference on Artificial Intelligence Europe s premier venue for presenting scientific results in AI The conference was held in The Hague the Netherlands from August 29 to September 2 2016 ECAI 2016 also incorporated the conference on Prestigious Applications of Intelligent Systems PAIS 2016 and the Starting AI Researcher Symposium STAIRS The papers from PAIS are included in this volume the papers from STAIRS are published in a separate volume in the Frontiers in Artificial Intelligence and Applications FAIA series Organized by the European Association for Artificial Intelligence EurAI and the Benelux Association for Artificial Intelligence BNVKI the ECAI conference provides an opportunity for researchers to present and hear about the very best research in contemporary AI This proceedings will be of interest to all those seeking an overview of the very latest innovations and developments in this field

*Computer Vision Systems* James L. Crowley,Bruce Draper,Monique Thonnat,2011-09-22 This book constitutes the refereed proceedings of the 8th International Conference on Computer Vision Systems ICVS 2011 held in Sophia Antipolis France in September 2009 The 22 revised papers presented were carefully reviewed and selected from 58 submissions The papers are organized in topical sections on vision systems control of perception performance evaluation activity recognition and knowledge directed vision

Explainable Human-AI Interaction Sarath Sreedharan,Anagha Kulkarni,Subbarao Kambhampati,2022-05-31 From its

inception artificial intelligence AI has had a rather ambivalent relationship with humans swinging between their augmentation and replacement Now as AI technologies enter our everyday lives at an ever increasing pace there is a greater need for AI systems to work synergistically with humans One critical requirement for such synergistic human AI interaction is that the AI systems behavior be explainable to the humans in the loop To do this effectively AI agents need to go beyond planning with their own models of the world and take into account the mental model of the human in the loop At a minimum AI agents need approximations of the human s task and goal models as well as the human s model of the AI agent s task and goal models The former will guide the agent to anticipate and manage the needs desires and attention of the humans in the loop and the latter allow it to act in ways that are interpretable to humans by conforming to their mental models of it and be ready to provide customized explanations when needed The authors draw from several years of research in their lab to discuss how an AI agent can use these mental models to either conform to human expectations or change those expectations through explanatory communication While the focus of the book is on cooperative scenarios it also covers how the same mental models can be used for obfuscation and deception The book also describes several real world application systems for collaborative decision making that are based on the framework and techniques developed here Although primarily driven by the authors own research in these areas every chapter will provide ample connections to relevant research from the wider literature The technical topics covered in the book are self contained and are accessible to readers with a basic background in AI

*Industrial Engineering and Applications* L.-C. Tang, 2023-08-09 The field of industrial engineering IE has a very wide scope from production processes and automation to supply chain management but the scope of IE techniques has expanded beyond the traditional domains of application and is now relevant to areas that matter most to society at large This book presents the proceedings of ICIEA 2023 the 10th International Conference on Industrial Engineering and Applications held in Phuket Thailand from 4 to 6 April 2023 The conference was conducted in hybrid mode with close to 100 delegates attending in person and about 50 participants attending online A total of 272 submissions were received for the conference of which 120 were accepted for presentation with 83 of those published here as full papers These papers cover a wide range of topics within the scope of industrial and systems engineering including but not limited to supply chain and logistics quality and reliability advanced manufacturing and production scheduling to ergonomics and man machine systems interfaces In particular a significant number of papers are devoted to machine learning techniques and applications beyond the traditional manufacturing sector to include healthcare sustainability assessment and other social issues Offering an overview of recent research and novel applications the book will be of interest to all those whose work involves the application of industrial engineering techniques

**Image Analysis and Recognition** Aurélio Campilho, Mohamed Kamel, 2006-09-13 ICIAR 2006 the International Conference on Image Analysis and Recognition was the third ICIAR conference and was held in Póvoa de Varzim Portugal ICIAR is organized annually and alternates between Europe and North America ICIAR 2004 was held in Porto

Portugal and ICIAR 2005 in Toronto Canada The idea of offering these conferences came as a result of discussion between researchers in Portugal and Canada to encourage collaboration and exchange mainly between these two countries but also with the open participation of other countries addressing recent advances in theory methodology and applications The response to the call for papers for ICIAR 2006 was higher than the two previous editions From 389 full papers submitted 163 were orally accepted 71 oral presentations and 92 posters The review process was carried out by the Program Committee members and other reviewers all are experts in various image analysis and recognition areas Each paper was reviewed by at least two reviewers and also checked by the conference Co chairs The high quality of the papers in these proceedings is attributed first to the authors and second to the quality of the reviews provided by the experts We would like to thank the authors for responding to our call and we wholeheartedly thank the reviewers for their excellent work and for their timely response It is this collective effort that resulted in the strong conference program and high quality proceedings in your hands

**Proceedings of the 2022 Joint Workshop of Fraunhofer IOSB and Institute for Anthropomatics, Vision and Fusion Laboratory** Beyerer, Jürgen, Zander, Tim, 2023-07-05 In August 2022 Fraunhofer IOSB and IES of KIT held a joint workshop in a Schwarzwaldhaus near Triberg Doctoral students presented research reports and discussed various topics like computer vision optical metrology network security usage control and machine learning This book compiles the workshop's results and ideas offering a comprehensive overview of the research program of IES and Fraunhofer IOSB

**Introduction to Symbolic Plan and Goal Recognition** Reuth Mirsky, Sarah Keren, Christopher Geib, 2022-05-31 Plan recognition activity recognition and goal recognition all involve making inferences about other actors based on observations of their interactions with the environment and other agents This synergistic area of research combines and makes use of techniques and research from a wide range of areas including user modeling machine vision automated planning intelligent user interfaces human computer interaction autonomous and multi agent systems natural language understanding and machine learning It plays a crucial role in a wide variety of applications including assistive technology software assistants computer and network security human robot collaboration natural language processing video games and many more This wide range of applications and disciplines has produced a wealth of ideas models tools and results in the recognition literature However it has also contributed to fragmentation in the field with researchers publishing relevant results in a wide spectrum of journals and conferences This book seeks to address this fragmentation by providing a high level introduction and historical overview of the plan and goal recognition literature It provides a description of the core elements that comprise these recognition problems and practical advice for modeling them In particular we define and distinguish the different recognition tasks We formalize the major approaches to modeling these problems using a single motivating example Finally we describe a number of state of the art systems and their extensions future challenges and some potential applications

**2013 International Conference on Computer Science and Artificial Intelligence** Dr. Yuetong Lin, Dr. Gabriel Alungbe, 2014-11-16 The main



objective of ICCSAI2013 is to provide a platform for the presentation of top and latest research results in global scientific areas The conference aims to provide a high level international forum for researcher engineers and practitioners to present and discuss recent advances and new techniques in computer science and artificial intelligence It also serves to foster communications among researcher engineers and practitioners working in a common interest in improving computer science artificial intelligence and the related fields We have received 325 numbers of papers through Call for Paper out of which 94 numbers of papers were accepted for publication in the conference proceedings through double blind review process The conference is designed to stimulate the young minds including Research Scholars Academicians and Practitioners to contribute their ideas thoughts and nobility in these two disciplines

**Introduction to Intelligent Systems in Traffic and Transportation** Ana L.C. Bazzan,Franziska Klügl,2022-05-31 Urban mobility is not only one of the pillars of modern economic systems but also a key issue in the quest for equality of opportunity once it can improve access to other services Currently however there are a number of negative issues related to traffic especially in mega cities such as economical issues cost of opportunity caused by delays environmental externalities related to emissions of pollutants and social traffic accidents Solutions to these issues are more and more closely tied to information and communication technology Indeed a search in the technical literature using the keyword urban traffic to filter out articles on data network traffic retrieved the following number of articles as of December 3 2013 9 443 ACM Digital Library 26 054 Scopus and 1 730 000 Google Scholar Moreover articles listed in the ACM query relate to conferences as diverse as MobiCom CHI PADS and AAMAS This means that there is a big and diverse community of computer scientists and computer engineers who tackle research that is connected to the development of intelligent traffic and transportation systems It is also possible to see that this community is growing and that research projects are getting more and more interdisciplinary To foster the cooperation among the involved communities this book aims at giving a broad introduction into the basic but relevant concepts related to transportation systems targeting researchers and practitioners from computer science and information technology In addition the second part of the book gives a panorama of some of the most exciting and newest technologies originating in computer science and computer engineering that are now being employed in projects related to car to car communication interconnected vehicles car navigation platooning crowd sensing and sensor networks among others This material will also be of interest to engineers and researchers from the traffic and transportation community

*Video Object Tracking* Ning Xu,Weiyao Lin,Xiankai Lu,Yunchao Wei,2023-12-04 This book provides a thorough overview of recent progress in video object tracking allowing researchers and industrial practitioners to gain a better understanding of the most important problems and developed technologies in the area Video tracking is a key research area in computer vision and aims to track unique objects in a given video which are useful for various applications such as video conference video editing surveillance and autonomous driving This book begins with an introduction to the task of video object tracking including the most common problem settings Given

the revolution of deep learning in computer vision problems numerous new tasks datasets and methods have been recently proposed in the domain of video tracking The book includes these recent results as well as benchmarks in large scale human centric video analysis in complex events      *Video Object Segmentation* Ning Xu,Weiyao Lin,Xiankai Lu,Yunchao Wei,2023-12-15 This book provides a thorough overview of recent progress in video object segmentation providing researchers and industrial practitioners with thorough information on the most important problems and developed technologies in the area Video segmentation is a fundamental topic for video understanding in computer vision Segmenting unique objects in a given video is useful for a variety of applications including video conference video editing surveillance and autonomous driving Given the revolution of deep learning in computer vision problems numerous new tasks datasets and methods have been recently proposed in the domain of segmentation The book includes these recent results and findings in large scale video object segmentation as well as benchmarks in large scale human centric video analysis in complex events The authors provide readers with a comprehensive understanding of the challenges involved in video object segmentation as well as the most effective methods for resolving them

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