Microsoft COCO: Common Objects in Context

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James Hays   Pietro Perona   Deva Ramanan   C. Lawrence Zitnick   Piotr Dollár

Abstract—We present a new dataset with the goal of advancing the state-of-the-art in object recognition by placing the question of object recognition in the context of the broader question of scene understanding. This is achieved by gathering images of complex everyday scenes containing common objects in their natural context. Objects are labeled using per-instance segmentations to aid in precise object localization. Our dataset contains photos of 91 objects types that would be easily recognizable by a 4 year old. With a total of 2.5 million labeled instances in 328k images, the creation of our dataset drew upon extensive crowd worker involvement via novel user interfaces for category detection, instance spotting and instance segmentation. We present a detailed statistical analysis of the dataset in comparison to PASCAL, ImageNet, and SUN. Finally, we provide baseline performance analysis for bounding box and segmentation detection results using a Deformable Parts Model.

1 INTRODUCTION

One of the primary goals of computer vision is the understanding of visual scenes. Scene understanding involves numerous tasks including recognizing what objects are present, localizing the objects in 2D and 3D, determining the objects' and scene's attributes, characterizing relationships between objects and providing a semantic description of the scene. The current object classification and detection datasets [1], [2], [3], [4] help us explore the first challenges related to scene understanding. For instance the ImageNet dataset [1], which contains an unprecedented number of images, has recently enabled breakthroughs in both object classification and detection research [5], [6], [7]. The community has also created datasets containing object attributes [8], scene attributes [9], keypoints [10], and 3D scene information [11]. This leads us to the obvious question: what datasets will best continue our advance towards our ultimate goal of scene understanding?

We introduce a new large-scale dataset that addresses three core research problems in scene understanding: detecting non-iconic views (or non-canonical perspectives [12]) of objects, contextual reasoning between objects and the precise 2D localization of objects. For many categories of objects, there exists an iconic view. For example, when performing a web-based image search for the object category "bike," the top-ranked retrieved examples appear in profile, unobstructed near the center of a neatly composed photo. We posit that current recognition systems perform fairly well on iconic views, but struggle to recognize objects otherwise – in the
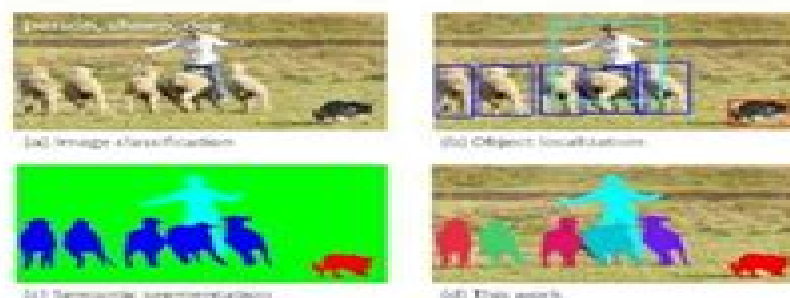

Fig. 1: While previous object recognition datasets have focused on (a) image classification, (b) object bounding box localization or (c) semantic pixel-level segmentation, we focus on (d) segmenting individual object instances. We introduce a large, richly-annotated dataset comprised of images depicting complex everyday scenes of common objects in their natural context.

background, partially occluded, amid clutter [13] – reflecting the composition of actual everyday scenes. We verify this experimentally; when evaluated on everyday scenes, models trained on our data perform better than those trained with prior datasets. A challenge is finding natural images that contain multiple objects. The identity of many objects can only be resolved using context, due to small size or ambiguous appearance in the image. To push research in contextual reasoning, images depicting scenes [3] rather than objects in isolation are necessary. Finally, we argue that detailed spatial understanding of object layout will be a core component of scene analysis. An object's spatial location can be defined coarsely using a bounding box [2] or with a precise pixel-level segmentation [14], [15], [16]. As we demonstrate, to measure either kind of localization performance it is essential for the dataset to have every instance of every object

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Advances in Emerging Trends and Technologies Miguel Botto-Tobar,Joffre León-Acurio,Angela Díaz Cadena,Práxedes Montiel Díaz,2019-10-12 This book constitutes the proceedings of the 1st International Conference on Advances in Emerging Trends and Technologies ICAETT 2019 held in Quito Ecuador on 29 31 May 2019 jointly organized by Universidad Tecnol gica Israel Universidad T cnica del Norte and Instituto Tecnol gico Superior Rumi ahui and supported by SNOTRA ICAETT 2019 brought together top researchers and practitioners working in different domains of computer science to share their expertise and to discuss future developments and potential collaborations Presenting high quality peer reviewed papers the book discusses the following topics Technology Trends Electronics Intelligent Systems Machine Vision Communication Security e Learning e Business e Government and e Participation **Computer Aided Systems Theory – EUROCAST 2019** Roberto Moreno-Díaz,Franz Pichler,Alexis Quesada-Arencibia,2020-04-15 The two volume set LNCS 12013 and 12014 constitutes the thoroughly refereed proceedings of the 17th International Conference on Computer Aided Systems Theory EUROCAST 2019 held in Las Palmas de Gran Canaria Spain in February 2019 The 123 full papers presented were carefully reviewed and selected from 172 submissions The papers are organized in the following topical sections Part I systems theory and applications pioneers and landmarks in the development of information and communication technologies stochastic models and applications to natural social and technical systems theory and applications of metaheuristic algorithms model based system design verification and simulation Part II applications of signal processing technology artificial intelligence and data mining for intelligent transportation systems and smart mobility computer vision machine learning for image analysis and applications computer and systems based methods and electronic technologies in medicine advances in biomedical signal and image processing systems concepts and methods in touristic flows systems in industrial robotics automation and IoT

Computer Vision – ECCV 2022 Shai Avidan,Gabriel Brostow,Moustapha Cissé,Giovanni Maria Farinella,Tal Hassner,2022-10-20 The 39 volume set comprising the LNCS books 13661 until 13699 constitutes the refereed proceedings of the 17th European Conference on Computer Vision ECCV 2022 held in Tel Aviv Israel during October 23 27 2022 The 1645 papers presented in these proceedings were carefully reviewed and selected from a total of 5804 submissions The papers deal with topics such as computer vision machine learning deep neural networks reinforcement learning object recognition image classification image processing object detection semantic segmentation human pose estimation 3d reconstruction stereo vision computational photography neural networks image coding image reconstruction object recognition motion estimation **Computer Vision – ECCV 2024** Aleš Leonardis,Elisa Ricci,Stefan Roth,Olga Russakovsky,Torsten Sattler,Gül Varol,2024-12-03 The multi volume set of LNCS books with volume numbers 15059 up to 15147 constitutes the refereed proceedings of the 18th European Conference on Computer Vision ECCV 2024 held in Milan Italy during September 29 October 4 2024 The 2387 papers presented in these proceedings were carefully reviewed and selected from a total of 8585

submissions They deal with topics such as computer vision machine learning deep neural networks reinforcement learning object recognition image classification image processing object detection semantic segmentation human pose estimation 3d reconstruction stereo vision computational photography neural networks image coding image reconstruction motion estimation **Advances in Computing and Data Sciences** Mayank Singh,Vipin Tyagi,P. K. Gupta,Jan Flusser,Tuncer Ören,V. R. Sonawane,2021-10-20 This two volume book constitutes the post conference proceedings of the 5th International Conference on Advances in Computing and Data Sciences ICACDS 2021 held in Nashik India in April 2021 The 103 full papers were carefully reviewed and selected from 781 submissions Part II is devoted to data sciences organizing principles medical technologies computational linguistics etc The conference was held virtually due to the COVID 19 pandemic

Computer Vision – ECCV 2020 Andrea Vedaldi,Horst Bischof,Thomas Brox,Jan-Michael Frahm,2020-11-12 The 30 volume set comprising the LNCS books 12346 until 12375 constitutes the refereed proceedings of the 16th European Conference on Computer Vision ECCV 2020 which was planned to be held in Glasgow UK during August 23 28 2020 The conference was held virtually due to the COVID 19 pandemic The 1360 revised papers presented in these proceedings were carefully reviewed and selected from a total of 5025 submissions The papers deal with topics such as computer vision machine learning deep neural networks reinforcement learning object recognition image classification image processing object detection semantic segmentation human pose estimation 3d reconstruction stereo vision computational photography neural networks image coding image reconstruction object recognition motion estimation *Intelligent Systems, Blockchain, and Communication Technologies* Ahmed Abdelgawad,Akhtar Jamil,Alaa Ali Hameed,2025-03-04 This proceedings book comprises high quality papers from the 1st International Conference on Intelligent Systems Blockchain and Communication Technologies ISBCom 2024 offering insights into the integration of computing IoT and data analytics across diverse fields Structured to emphasize real world applications it presents impactful studies that propose novel solutions to current challenges in these domains The book is a valuable resource for researchers professionals and students interested in the latest advancements in intelligent systems and smart technologies It spans foundational theories to practical implementations exploring new tools and methodologies for data driven solutions in areas like artificial intelligence IoT infrastructures and data analytics This collection is essential for those seeking to stay updated on current trends and apply theoretical knowledge to practical innovative applications *Artificial Intelligence Research* Edgar Jembere,Aurona J. Gerber,Serestina Viriri,Anban Pillay,2022-01-29 This book constitutes the refereed proceedings of the Second Southern African Conference on Artificial Intelligence Research SACAIR 2021 held in Durban South Africa in December 2021 Due to the COVID 19 pandemic the SACAIR 2021 was held online The 22 papers presented were thoroughly reviewed and selected from the 70 submissions They are organized on the topical sections on AI in the humanities and society AI in and for information systems computer vision and image processing deep learning knowledge representation and reasoning machine

learning philosophy and ethics of AI *Advanced Communication and Intelligent Systems* Rabindra Nath Shaw,Marcin Paprzycki,Ankush Ghosh,2023-02-14 This book constitutes selected papers presented at the First International Conference on Advanced Communication and Intelligent Systems ICACIS 2022 held as a virtual event in October 2022 The 69 papers were thoroughly reviewed and selected from the 258 subissions The book focuses on current development in the fields of communication and intelligent systems **Scalable Disruptors** Philipp Eversmann,Christoph Gengnagel,Julian Lienhard,Mette Ramsgaard Thomsen,Jan Wurm,2024-08-29 This book reflects and expands on current trends in the Architecture Engineering and Construction AEC industries as they respond to the unfolding climate and biodiversity crisis Shifting away from the traditional focuses which are narrowly centered on efficiency this book presents a variety of approaches to move the AEC community from a linear extractive paradigm to circular and regenerative one The book presents contributions including research papers and case studies providing a comprehensive overview of the field as well as perspectives from related disciplines such as computer science biology and material science **Advances in Internet, Data & Web Technologies** Leonard Barolli,Fatos Xhafa,Nadeem Javaid,Evjola Spaho,Vladi Kolici,2018-02-23 This book presents original contributions on the theories and practices of emerging Internet data and Web technologies and their applicability in businesses engineering and academia focusing on advances in the life cycle exploitation of data generated from the digital ecosystem data technologies that create value e g for businesses toward a collective intelligence approach The Internet has become the most proliferative platform for emerging large scale computing paradigms Among these data and web technologies are two of the most prominent paradigms and are found in a variety of forms such as data centers cloud computing mobile cloud and mobile Web services These technologies together create a digital ecosystem whose cornerstone is the data cycle from capturing to processing analyzing and visualizing The investigation of various research and development issues in this digital ecosystem are made more pressing by the ever increasing requirements of real world applications that are based on storing and processing large amounts of data The book is a valuable resource for researchers software developers practitioners and students interested in the field of data and web technologies *Developments and Advances in Defense and Security* Álvaro Rocha,Carlos Hernan Fajardo-Toro,José María Riola Rodríguez,2021-10-28 This book gathers the proceedings of the Multidisciplinary International Conference of Research Applied to Defense and Security MICRADS 2021 held at Naval Cadet School Almirante Padilla in Cartagena Colombia during August 18 20 2021 It covers a broad range of topics in systems communication and defense strategy and political administrative vision in defense and engineering and technologies applied to defense Given its scope it offers a valuable resource for practitioners researchers and students alike *Computer Vision – ECCV 2018 Workshops* Laura Leal-Taixé,Stefan Roth,2019-01-28 The six volume set comprising the LNCS volumes 11129 11134 constitutes the refereed proceedings of the workshops that took place in conjunction with the 15th European Conference on Computer Vision ECCV 2018 held in Munich Germany in September 2018

43 workshops from 74 workshops proposals were selected for inclusion in the proceedings The workshop topics present a good orchestration of new trends and traditional issues built bridges into neighboring fields and discuss fundamental technologies and novel applications   Medical Image Computing and Computer Assisted Intervention – MICCAI 2020 Anne L. Martel,Purang Abolmaesumi,Danail Stoyanov,Diana Mateus,Maria A. Zuluaga,S. Kevin Zhou,Daniel Racoceanu,Leo Joskowicz,2020-10-02 The seven volume set LNCS 12261 12262 12263 12264 12265 12266 and 12267 constitutes the refereed proceedings of the 23rd International Conference on Medical Image Computing and Computer Assisted Intervention MICCAI 2020 held in Lima Peru in October 2020 The conference was held virtually due to the COVID 19 pandemic The 542 revised full papers presented were carefully reviewed and selected from 1809 submissions in a double blind review process The papers are organized in the following topical sections Part I machine learning methodologies Part II image reconstruction prediction and diagnosis cross domain methods and reconstruction domain adaptation machine learning applications generative adversarial networks Part III CAI applications image registration instrumentation and surgical phase detection navigation and visualization ultrasound imaging video image analysis Part IV segmentation shape models and landmark detection Part V biological optical microscopic imaging cell segmentation and stain normalization histopathology image analysis opthalmology Part VI angiography and vessel analysis breast imaging colonoscopy dermatology fetal imaging heart and lung imaging musculoskeletal imaging Part VI brain development and atlases DWI and tractography functional brain networks neuroimaging positron emission tomography   **Proceedings of 3rd 2023 International Conference on Autonomous Unmanned Systems (3rd ICAUS 2023)** Yi Qu,Mancang Gu,Yifeng Niu,Wenxing Fu,2024-04-24 This book includes original peer reviewed research papers from the 3rd ICAUS 2023 which provides a unique and engaging platform for scientists engineers and practitioners from all over the world to present and share their most recent research results and innovative ideas The 3rd ICAUS 2023 aims to stimulate researchers working in areas relevant to intelligent unmanned systems Topics covered include but are not limited to Unmanned Aerial Ground Surface Underwater Systems Robotic Autonomous Control Navigation and Positioning Architecture Energy and Task Planning and Effectiveness Evaluation Technologies Artificial Intelligence Algorithm Bionic Technology and their Application in Unmanned Systems The papers presented here share the latest findings in unmanned systems robotics automation intelligent systems control systems integrated networks modelling and simulation This makes the book a valuable resource for researchers engineers and students alike   **Bildverarbeitung in der Automation** Volker Lohweg,2025-07-14 In diesem Open Access Tagungsband sind die besten Beitr ge des 9 Jahreskolloquiums Bildverarbeitung in der Automation BVAu 2024 enthalten Das Kolloquium fand am 05 November 2024 auf dem Innovation Campus Lemgo statt Die vorgestellten neuesten Forschungsergebnisse auf den Gebieten der industriellen Bildverarbeitung erweitern den aktuellen Stand der Forschung und Technik Die in den Beitr gen enthaltenen anschaulichen Anwendungsbeispiele aus dem Bereich der Automation setzen die Ergebnisse in den direkten

Anwendungsbezug   **Advanced Computational Intelligence for Object Detection, Feature Extraction and Recognition in Smart Sensor Environments** Marcin Woźniak,2021-09-01 Recent years have seen a vast development in various methodologies for object detection and feature extraction and recognition both in theory and in practice When processing images videos or other types of multimedia one needs efficient solutions to perform fast and reliable processing Computational intelligence is used for medical screening where the detection of disease symptoms is carried out in prevention monitoring to detect suspicious behavior in agriculture systems to help with growing plants and animal breeding in transportation systems for the control of incoming and outgoing transportation for unmanned vehicles to detect obstacles and avoid collisions in optics and materials for the detection of surface damage etc In many cases we use developed techniques which help us to recognize some special features In the context of this innovative research on computational intelligence the Special Issue Advanced Computational Intelligence for Object Detection Feature Extraction and Recognition in Smart Sensor Environments present an excellent opportunity for the dissemination of recent results and achievements for further innovations and development It is my pleasure to present this collection of excellent contributions to the research community Prof Marcin Wo niak Silesian University of Technology Poland   **Large Vision-Language Models** Kaiyang Zhou,Ziwei Liu,Peng Gao,2025-08-30 The rapid progress in the field of large multimodal foundation models especially vision language models has dramatically transformed the landscape of machine learning computer vision and natural language processing These powerful models trained on vast amounts of multimodal data mixed with images and text have demonstrated remarkable capabilities in tasks ranging from image classification and object detection to visual content generation and question answering This book provides a comprehensive and up to date exploration of large vision language models covering the key aspects of their pre training prompting techniques and diverse real world computer vision applications It is an essential resource for researchers practitioners and students in the fields of computer vision natural language processing and artificial intelligence Large Vision Language Models begins by exploring the fundamentals of large vision language models covering architectural designs training techniques and dataset construction methods It then examines prompting strategies and other adaptation methods demonstrating how these models can be effectively fine tuned to address a wide range of downstream tasks The final section focuses on the application of vision language models across various domains including open vocabulary object detection 3D point cloud processing and text driven visual content generation and manipulation Beyond the technical foundations the book explores the wide ranging applications of vision language models VLMs from enhancing image recognition systems to enabling sophisticated visual content generation and facilitating more natural human machine interactions It also addresses key challenges in the field such as feature alignment scalability data requirements and evaluation metrics By providing a comprehensive roadmap for both newcomers and experts this book serves as a valuable resource for understanding the current landscape limitations and future directions of VLMs

ultimately contributing to the advancement of artificial intelligence **Natural Language Processing and Information Systems** Ryutaro Ichise,2025-08-01 The two volume set LNCS 15836 and 15837 constitutes the proceedings of the 30th International Conference on Applications of Natural Language to Information Systems NLDB 2025 held in Kanazawa Japan during July 4 6 2025 The 33 full papers 19 short papers and 2 demo papers presented in this volume were carefully reviewed and selected from 120 submissions The proceedings contain novel and significant research contributions addressing theoretical aspects algorithms applications architectures resources and other aspects of NLP as well as survey and discussion papers **Proceedings of International Conference on Image, Vision and Intelligent Systems 2022 (ICIVIS 2022)** Peng You,Heng Li,Zhenxiang Chen,2023-03-28 This book is a collection of the papers accepted by the ICIVIS 2022 The International Conference on Image Vision and Intelligent Systems held on August 15 17 2022 in Jinan China The topics focus but are not limited to image vision and intelligent systems Each part can be used as an excellent reference by industry practitioners university faculties research fellows and undergraduates as well as graduate students who need to build a knowledge base of the most current advances and state of practice in the topics covered by this conference proceedings

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web exhibitions and specially designed workshops and resources for teachers such as school tours and online programs for all grade levels the national gallery s conservation division is one of the largest and most comprehensive of the world s art museums with laboratories for conserving paintings

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