

# Achieving Optimal Speed and Accuracy in Object Detection (YOLOv4)



# **Yolov4 Optimal Speed And Accuracy Of Object Detection**

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## **Yolov4 Optimal Speed And Accuracy Of Object Detection:**

*Bio-Inspired Computing: Theories and Applications* Linqiang Pan, Dongming Zhao, Lianghao Li, Jianqing Lin, 2023-04-17

This book constitutes the refereed proceedings of the 17th International Conference on Bio Inspired Computing Theories and Applications BIC TA 2022 held in Wuhan China during December 16 18 2022 The 56 full papers included in this book were carefully reviewed and selected from 148 submissions They were organized in topical sections as follows evolutionary computation and swarm intelligence machine learning and deep learning intelligent control and simulation and molecular computing and nanotechnology

### **New Materials, Machinery and Vehicle Engineering** J. Xu, J.P. Davim, 2023-10-19

Scientists and engineers are working constantly to develop and improve the materials machines and vehicles that are part of all our daily lives and keeping abreast of advances in these fields is important to all those engaged in such efforts This book presents the proceedings of NMMVE 2023 the 2nd International Conference on New Materials Machinery and Vehicle Engineering held in Guiyang China from 2 4 June 2023 The conference brings together researchers academics and industrial professionals from around the world to discuss the latest advancements in the fields of new materials machinery and vehicle engineering A total of 149 submissions were received for presentation at the conference of which 57 were ultimately accepted after a rigorous three part single blind review process A wide variety of topics is covered in the papers which are divided into 3 categories machinery new materials and vehicle engineering The book provides a valuable overview of the latest developments and breakthroughs and will be of interest to all researchers and professionals working in the fields of new materials machinery and vehicle engineering

*Pattern Recognition and Computer Vision* Shiqi Yu, Zhaoxiang

Zhang, Pong C. Yuen, Junwei Han, Tieniu Tan, Yike Guo, Jianhuang Lai, Jianguo Zhang, 2022-10-27 The 4 volume set LNCS 13534 13535 13536 and 13537 constitutes the refereed proceedings of the 5th Chinese Conference on Pattern Recognition and Computer Vision PRCV 2022 held in Shenzhen China in November 2022 The 233 full papers presented were carefully reviewed and selected from 564 submissions The papers have been organized in the following topical sections Theories and Feature Extraction Machine learning Multimedia and Multimodal Optimization and Neural Network and Deep Learning Biomedical Image Processing and Analysis Pattern Classification and Clustering 3D Computer Vision and Reconstruction Robots and Autonomous Driving Recognition Remote Sensing Vision Analysis and Understanding Image Processing and Low level Vision Object Detection Segmentation and Tracking

### **Advanced Sensing and Robotics Technologies in Smart**

**Agriculture** Yuliang Yun, Web and Big Data Wenjie Zhang, *Machine Learning and Principles and Practice of*

*Knowledge Discovery in Databases* Irena Koprinska, Paolo Mignone, Riccardo Guidotti, Szymon Jaroszewicz, Holger

Fröning, Francesco Gullo, Pedro M. Ferreira, Damian Roqueiro, Gaia Ceddia, Slawomir Nowaczyk, João Gama, Rita

Ribeiro, Ricard Gavaldà, Elio Masciari, Zbigniew Ras, Ettore Ritacco, Francesca Naretto, Andreas Theissler, Przemyslaw

Biecek, Wouter Verbeke, Gregor Schiele, Franz Pernkopf, Michaela Blott, Ilaria Bordino, Ivan Luciano Danesi, Giovanni

Ponti,Lorenzo Severini,Annalisa Appice,Giuseppina Andresini,Ibéria Medeiros,Guilherme Graça,Lee Cooper,Naghmeh Ghazaleh,Jonas Richiardi,Diego Saldana,Konstantinos Sechidis,Arif Canakoglu,Sara Pido,Pietro Pinoli,Albert Bifet,Sepideh Pashami,2023-01-30 This volume constitutes the papers of several workshops which were held in conjunction with the International Workshops of ECML PKDD 2022 on Machine Learning and Principles and Practice of Knowledge Discovery in Databases ECML PKDD 2022 held in Grenoble France during September 19 23 2022 The 73 revised full papers and 6 short papers presented in this book were carefully reviewed and selected from 143 submissions ECML PKDD 2022 presents the following workshops Workshop on Data Science for Social Good SoGood 2022 Workshop on New Frontiers in Mining Complex Patterns NFMCP 2022 Workshop on Explainable Knowledge Discovery in Data Mining XKDD 2022 Workshop on Uplift Modeling UMOD 2022 Workshop on IoT Edge and Mobile for Embedded Machine Learning ITEM 2022 Workshop on Mining Data for Financial Application MIDAS 2022 Workshop on Machine Learning for Cybersecurity MLCS 2022 Workshop on Machine Learning for Buildings Energy Management MLBEM 2022 Workshop on Machine Learning for Pharma and Healthcare Applications PharML 2022 Workshop on Data Analysis in Life Science DALs 2022 Workshop on IoT Streams for Predictive Maintenance IoT PdM 2022 **Fuzzy Systems and Data Mining IX** A.J. Tallón-Ballesteros,R.

Beltrán-Barba,2023-12-19 Fuzzy systems and data mining are indispensable aspects of the digital technology on which we now all depend Fuzzy logic is intrinsic to applications in the electrical chemical and engineering industries and also in the fields of management and environmental issues Data mining is indispensable in dealing with big data massive data and scalable parallel and distributed algorithms This book presents the proceedings of FSDM 2023 the 9th International Conference on Fuzzy Systems and Data Mining held from 10 13 November 2023 as a hybrid event with some participants attending in Chongqing China and others online The conference focuses on four main areas fuzzy theory algorithms and systems fuzzy application data mining and the interdisciplinary field of fuzzy logic and data mining and provides a forum for experts researchers academics and representatives from industry to share the latest advances in the field of fuzzy sets and data mining This year topics from two special sessions on granular ball computing and the application of generative AI as well as machine learning and neural networks were also covered A total of 363 submissions were received and after careful review by the members of the international program committee 110 papers were accepted for presentation at the conference and publication here representing an acceptance rate of just over 30% Covering a comprehensive range of current research and developments in fuzzy logic and data mining the book will be of interest to all those working in the field of data science

**Exploration of Novel Intelligent Optimization Algorithms** Kangshun Li,Yong Liu,Wenxiang Wang,2022-07-31 This book constitutes the refereed proceedings of the 12th International Symposium ISICA 2021 held in Guangzhou China during November 19 21 2021 The 48 full papers included in this book were carefully reviewed and selected from 99 submissions They were organized in topical sections as follows new frontier of multi objective evolutionary algorithms intelligent multi

media data modeling and application of artificial intelligence exploration of novel intelligent optimization algorithm and intelligent application of industrial production

**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

**Artificial Intelligence Applications and Innovations** Ilias Maglogiannis,Lazaros Iliadis,John MacIntyre,Manuel Dominguez,2023-05-31 This two volume set of IFIP AICT 675 and 676 constitutes the refereed proceedings of the 19th IFIP WG 12 5 International Conference on Artificial Intelligence Applications and Innovations AIAI 2023 held in Le n Spain during June 14 17 2023 This event was held in hybrid mode The 75 regular papers and 17 short papers presented in this two volume set were carefully reviewed and selected from 185 submissions The papers cover the following topics Deep Learning Reinforcement Recurrent Gradient Boosting Adversarial Agents Case Based Reasoning Sentiment Analysis Biomedical Image Analysis CNN Convolutional Neural Networks YOLO CNN Cyber Security Anomaly Detection Explainable AI Social Impact of AI Graph Neural Networks Constraint Programming IoT Fuzzy Modeling Augmented Reality LEARNING Active AutoEncoders Federated Machine Learning Natural Language Optimization Genetic Programming Robotics Spiking NN and Text Mining Transfer Learning

**Intelligent Data Communication Technologies and Internet of Things** D. Jude Hemanth,Danilo Pelusi,Chandrasekar Vuppalapati,2022-02-28 This book gathers selected papers presented at the 5th International Conference on Intelligent Data Communication Technologies and Internet of Things ICICI 2021 organized by JCT College of Engineering and Technology Coimbatore Tamil Nadu India during 27 28 August 2021 This book solicits the innovative research ideas and solutions for almost all the intelligent data intensive theories and application domains The general scope of this book covers the design architecture modeling software infrastructure and applications of intelligent communication architectures and systems for big data or data intensive applications In particular this book reports the novel and recent research works on big data mobile and wireless networks artificial intelligence machine learning social network mining intelligent computing technologies image analysis robotics and autonomous systems data security and privacy

**Advances in Computer Graphics** Nadia Magnenat-Thalmann,Jian Zhang,Jinman Kim,George Papagiannakis,Bin Sheng,Daniel Thalmann,Marina Gavrilova,2023-01-01 This book constitutes the refereed proceedings of the 39th Computer Graphics International Conference on Advances in Computer Graphics CGI 2022 held Virtually during September 12 16 2022 The 45 full papers included in this book were carefully reviewed and selected from 139 submissions They were organized in topical sections as follows image analysis graphs estimation 3d reconstruction

rendering detection colors paintings synthesis ar medical imaging segmentation object detection image attention and modeling simulation

**Artificial Neural Networks and Machine Learning - ICANN 2023** Lazaros Iliadis, Antonios Papaleonidas, Plamen Angelov, Chrisina Jayne, 2023-09-21 The 10 volume set LNCS 14254 14263 constitutes the proceedings of the 32nd International Conference on Artificial Neural Networks and Machine Learning ICANN 2023 which took place in Heraklion Crete Greece during September 26 29 2023 The 426 full papers and 9 short papers included in these proceedings were carefully reviewed and selected from 947 submissions ICANN is a dual track conference featuring tracks in brain inspired computing on the one hand and machine learning on the other with strong cross disciplinary interactions and applications

**Mobile Networks and Management** Carlos T. Calafate, Xianfu Chen, Yuan Wu, 2022-01-17 This book constitutes the refereed post conference proceedings of the 11th International Conference on Mobile Networks and Management MONAMI 2021 held in October 2021 The conference was held virtually due to the COVID 19 pandemic The 26 full papers were carefully reviewed and selected from 53 submissions The papers are divided into groups of content as follows The application of artificial intelligence for smart city Advanced technology in edge and fog computing Emerging technologies and applications in mobile networks and management and Recent advances in communications and computing

**Cognitive Computation and Systems** Fuchun Sun, Jianmin Li, Huaping Liu, Zhongyi Chu, 2023-05-23 This volume constitutes selected papers presented during the First International Conference on Cognitive Computation and Systems ICCCS 2022 held in Beijing China in October 2022 The 31 papers were thoroughly reviewed and selected from the 75 submissions The papers are organized in topical sections on computer vision decision making and cognitive computation robot and autonomous vehicle

**Communications, Signal Processing, and Systems** Qilian Liang, Wei Wang, Xin Liu, Zhenyu Na, Baoju Zhang, 2023-03-28 This book brings together papers presented at the 2021 International Conference on Communications Signal Processing and Systems Changbaishan China July 23 24 2022 which provides a venue to disseminate the latest developments and to discuss the interactions and links between these multidisciplinary fields Spanning topics ranging from communications signal processing and systems this book is aimed at undergraduate and graduate students in Electrical Engineering Computer Science and Mathematics researchers and engineers from academia and industry as well as government employees such as NSF DOD and DOE

*16th International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2021)* Hugo Sanjurjo González, Iker Pastor López, Pablo García Bringas, Héctor Quintián, Emilio Corchado, 2021-09-22 This book of Advances in Intelligent and Soft Computing contains accepted papers presented at SOCO 2021 conference held in the beautiful and historic city of Bilbao Spain in September 2021 Soft computing represents a collection or set of computational techniques in machine learning computer science and some engineering disciplines which investigate simulate and analyze very complex issues and phenomena After a thorough peer review process the 16th SOCO 2021 International Program Committee selected 78 papers which are published in these

conference proceedings and represents an acceptance rate of 48% In this relevant edition a special emphasis is put on the organization of special sessions Seven special sessions are organized related to relevant topics as follows applications of machine learning in computer vision soft computing applied to autonomous robots and renewable energy systems optimization modeling and control by soft computing techniques OMCS challenges and new approaches toward artificial intelligence deployments in real world scenarios time series forecasting in industrial and environmental applications TSF soft computing methods in manufacturing and management systems and applied machine learning The selection of papers was extremely rigorous in order to maintain the high quality of the conference and we would like to thank the members of the program committees for their hard work in the reviewing process This is a crucial process to the creation of a high standard conference and the SOCO conference would not exist without their help

*Image and Graphics Technologies and Applications* Wang Yongtian,Wu Lifang,2023-10-24 This book constitutes the refereed proceedings of the 18th Chinese Conference on Image and Graphics Technologies and Applications IGTA 2023 held in Beijing China during August 17 19 2023 The 35 full papers included in this book were carefully reviewed and selected from 129 submissions They were organized in topical sections as follows image processing and enhancement techniques machine vision and 3D reconstruction image video big data analysis and understanding computer graphics visualization and visual analysis virtual reality and human computer interaction and applications of image and graphics

**RoboCup 2021: Robot World Cup XXIV** Rachid Alami,Joydeep Biswas,Maya Cakmak,Oliver Obst,2022-03-21 This book constitutes the proceedings of the 24th RoboCup International Symposium which was held online during June 22 June 28 2021 The 19 full papers included in these proceedings were carefully reviewed and selected from 42 submissions the volume also includes 10 RoboCup Champions Papers In addition to presenting the proceedings of the RoboCup 2021 Symposium the book highlights the approaches of champion teams from the competitions Due to the complex research challenges set by the RoboCup initiative the RoboCup International Symposium offers a unique perspective for exploring scientific and engineering principles underlying advanced robotic and AI systems

**New perspectives on osteoclasts in health and disease** Stefania Mariggio,Maria-Bernadette Madel,Enrico Iaccino,Claudine Blin-Wakkach,2022-12-29

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