
You Only Look Once Uni Ed Real Time Object Detection

Second CCF Chinese Conference, CCCV 2017, Tianjin, China, October 11-14, 2017, Proceedings, Part III

21st International Conference on Hybrid Intelligent Systems (HIS 2021), December 14-16, 2021

Advanced Computational Intelligence for Object Detection, Feature Extraction and Recognition in Smart Sensor Environments

Advanced Network Technologies and Intelligent Computing
Computer Vision

Proceedings of the 2021 Computing Conference

Proceedings of the International e-Conference on Intelligent Systems and Signal Processing

15th International Symposium, ISVC 2020, San Diego, CA, USA, October 5-7, 2020, Proceedings, Part II

Advances in Visual Computing

39th National Conference of Theoretical Computer Science, NCTCS 2021, Yinchuan, China, July 23-25, 2021, Revised Selected Papers

Signal and Information Processing, Networking and Computers

Intelligent Computing Methodologies

Intelligent Systems and Applications

e-ISSP 2020

Proceedings of the 23rd International Conference of the Catalan Association for Artificial Intelligence

Proceedings of CIPR 2021

12th International Conference, ICSI 2021, Qingdao, China, July 17-21, 2021, Proceedings, Part II

Advances in Computational Intelligence and Informatics

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APPLEPIES 2020

Intelligent Computing

Artificial Intelligence in China

Proceedings of ICACII 2019

8th International Conference, FDSE 2021, Virtual Event, November 24-26, 2021, Proceedings

Proceedings of the 2020 Intelligent Systems Conference (IntelliSys) Volume 1
 Proceedings of AMLTA 2021
 Applications and Case Studies
 An executive's guide to AI and Intelligent Automation
 Innovation Through Information Systems
 Rail Transportation Information Processing and Operational Management
 Technologies
 MUE/FutureTech 2019
 Proceedings of the 8th International Conference on Communications, Signal
 Processing, and Systems
 16th International Conference, ICIC 2020, Bari, Italy, October 2-5, 2020, Proceedings,
 Part III
 Convergence of Internet of Things and Blockchain Technologies

*You Only Look
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 Real Time
 Object
 Detection*

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HULL KAYLYN

Second CCF Chinese Conference, CCCV 2017, Tianjin, China, October 11-14, 2017, Proceedings, Part III

Springer Nature
 This book is a collection of
 outstanding papers
 presented at the 1st
 International Conference
 on Advances in
 Computational
 Intelligence and
 Informatics (ICACII 2019),
 organized by the
 Department of Computer
 Science & Engineering,
 Anurag Group of
 Institutions (AGI),
 Hyderabad, on 20-21
 December 2019. It
 includes innovative ideas
 and new research findings
 in the field of
 Computational
 Intelligence and

Informatics that will
 benefit researchers,
 scientists, technocrats,
 academics and engineers
 alike. The areas covered
 include high-performance
 systems, data science and
 analytics, computational
 intelligence and expert
 systems, cloud
 computing, computer
 networks and emerging
 technologies.

*21st International
 Conference on Hybrid
 Intelligent Systems (HIS
 2021), December 14-16,
 2021* Springer Nature
 This book constitutes the
 proceedings of the 8th
 International Conference
 on Future Data and
 Security Engineering,
 FDSE 2021, held in Ho Chi
 Minh City, Vietnam, in
 November 2021.* The 28
 full papers and 8 short
 were carefully reviewed
 and selected from 168
 submissions. The selected
 papers are organized into
 the following topical

headings: big data
 analytics and distributed
 systems; security and
 privacy engineering;
 industry 4.0 and smart
 city: data analytics and
 security; blockchain and
 access control; data
 analytics and healthcare
 systems; and short
 papers: security and data
 engineering. * The
 conference was held
 virtually due to the
 COVID-19 pandemic.
Advanced Computational
 Intelligence for Object
 Detection, Feature
 Extraction and
 Recognition in Smart
 Sensor Environments
 Springer Nature
 Develop and optimize
 deep learning models with
 advanced architectures.
 This book teaches you the
 intricate details and
 subtleties of the
 algorithms that are at the
 core of convolutional
 neural networks. In
 Advanced Applied Deep

Learning, you will study advanced topics on CNN and object detection using Keras and TensorFlow. Along the way, you will look at the fundamental operations in CNN, such as convolution and pooling, and then look at more advanced architectures such as inception networks, resnets, and many more. While the book discusses theoretical topics, you will discover how to work efficiently with Keras with many tricks and tips, including how to customize logging in Keras with custom callback classes, what is eager execution, and how to use it in your models. Finally, you will study how object detection works, and build a complete implementation of the YOLO (you only look once) algorithm in Keras and TensorFlow. By the end of the book you will have implemented various models in Keras and learned many advanced tricks that will bring your skills to the next level.

What You Will Learn See how convolutional neural networks and object detection work Save weights and models on disk Pause training and restart it at a later stage Use hardware acceleration (GPUs) in

your code Work with the Dataset TensorFlow abstraction and use pre-trained models and transfer learning Remove and add layers to pre-trained networks to adapt them to your specific project Apply pre-trained models such as Alexnet and VGG16 to new datasets Who This Book Is For Scientists and researchers with intermediate-to-advanced Python and machine learning know-how. Additionally, intermediate knowledge of Keras and TensorFlow is expected.

Advanced Network Technologies and Intelligent Computing Springer Nature

This book constitutes selected and revised papers presented at the First International Conference on Optimization, Learning Algorithms and Applications, OL2A 2021, held in Bragança, Portugal, in July 2021. Due to the COVID-19 pandemic the conference was held online. The 39 full papers and 13 short papers were thoroughly reviewed and selected from 134 submissions. They are organized in the topical sections on optimization theory; robotics; measurements with the internet of

things; optimization in control systems design; deep learning; data visualization and virtual reality; health informatics; data analysis; trends in engineering education.

Computer Vision Springer Nature

Working Machines - An executive's guide to AI and Intelligent Automation, takes a look at how the renewed vigour for the development of Artificial Intelligence and Intelligent Automation technology has begun to change how businesses operate. It provides a step-by-step guide to building your own AI and Intelligent Automation strategies and frameworks, while also giving you insight into the way it is currently being used across multiple industries. This extensive guide is brought to you by the minds behind WeAreBrain and Tur.ai, experts in the AI, RPA and business automation fields.

Proceedings of the 2021 Computing Conference Springer Nature

Artificial intelligence has become an indispensable part of our lives in recent years, affecting all aspects from business and leisure to transport and health care. This book

presents the proceedings of the 23rd edition of the International Conference of the Catalan Association for Artificial Intelligence (CCIA), an annual event that serves as a meeting point for researchers in Artificial Intelligence in the area of the Catalan speaking territories and from around the world. The 2021 edition was held online as a virtual conference from 20 - 22 October 2021 due to the COVID-19 pandemic. The book contains 42 long papers and 9 short papers, carefully reviewed and selected. The papers cover all aspects of artificial intelligence and are divided under six section headings: combinatorial problem solving and logics for artificial intelligence; sentiment analysis and tekst analysis; data science and decision support systems; machine learning; computer vision; and explainability and argumentation. Abstracts of the 2 invited talks delivered at the conference by Prof. Patty Kostkova and Prof. João Marques-Silva are also included. Offering a state of the art overview of the subject from a regional perspective, the book will be of interest to all those working in the field of

artificial intelligence.

Proceedings of the International e-Conference on Intelligent Systems and Signal Processing

Springer Nature

This book includes the post-conference proceedings of the 23rd RoboCup International Symposium, held in Sydney, NSW, Australia, in July 2019. The 38 full revised papers and 14 invited papers presented in this book were carefully reviewed and selected from 74 submissions. This book highlights the approaches of champion teams from the competitions and documents the proceedings of the 23rd annual RoboCup International Symposium. 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. *15th International Symposium, ISVC 2020, San Diego, CA, USA, October 5-7, 2020, Proceedings, Part II* Springer

This book examines innovation in the fields of computer engineering and

networking, and explores important, state-of-the-art developments in areas such as artificial intelligence, machine learning, information analysis and communication. It gathers papers presented at the 8th International Conference on Computer Engineering and Networks (CENet2018), held in Shanghai, China on August 17-19, 2018. • Explores emerging topics in computer engineering and networking, along with their applications • Discusses how to improve productivity by using the latest advanced technologies • Examines innovation in the fields of computer engineering and networking

Advances in Visual Computing Springer

Nature

This book brings together papers presented at The 2nd International Conference on Artificial Intelligence in China (ChinaAI) 2020, which provides a venue to disseminate the latest developments and to discuss the interactions and links between these multidisciplinary fields. Spanning topics covering all topics in artificial intelligence with new development in China, 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).

39th National Conference of Theoretical Computer Science, NCTCS 2021, Yinchuan, China, July 23-25, 2021, Revised Selected Papers CRC Press

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 Woźniak, Silesian University of Technology, Poland - *Signal and Information Processing, Networking and Computers* Springer Nature

This book discusses the use of machine vision and technologies in specific engineering case studies and focuses on how machine vision techniques are impacting every step of industrial processes and how smart sensors and cognitive big data

analytics are supporting the automation processes in Industry 4.0 applications. Industry 4.0, the Fourth Industrial Revolution, combines traditional manufacturing with automation and data exchange. Machine vision is used in the industry for reliable product inspections, quality control, and data capture solutions. It combines different technologies to provide important information from the acquisition and analysis of images for robot-based inspection and guidance. Features Presents a comprehensive guide on how to use machine vision for Industry 4.0 applications, such as analysis of images for automated inspections, object detection, object tracking, and more Includes case studies of Robotics Internet of Things with its current and future applications in healthcare, agriculture, and transportation Highlights the inclusion of impaired people in the industry, for example, an intelligent assistant that helps deaf-mute individuals to transmit instructions and warnings in a manufacturing process Examines the significant technological advancements in machine

vision for Industrial Internet of Things and explores the commercial benefits using real-world applications from healthcare to transportation. Discusses a conceptual framework of machine vision for various industrial applications. The book addresses scientific aspects for a wider audience such as senior and junior engineers, undergraduate and postgraduate students, researchers, and anyone interested in the trends, development, and opportunities for machine vision for Industry 4.0 applications.

Intelligent Computing Methodologies Apress
This book features high-quality research papers presented at the 3rd International Conference on Computational Intelligence in Pattern Recognition (CIPR 2021), held at the Institute of Engineering and Management, Kolkata, West Bengal, India, on 24 – 25 April 2021. It includes practical development experiences in various areas of data analysis and pattern recognition, focusing on soft computing technologies, clustering and classification algorithms, rough set and fuzzy set theory, evolutionary

computations, neural science and neural network systems, image processing, combinatorial pattern matching, social network analysis, audio and video data analysis, data mining in dynamic environments, bioinformatics, hybrid computing, big data analytics and deep learning. It also provides innovative solutions to the challenges in these areas and discusses recent developments.

Intelligent Systems and Applications IOS Press
This book presents chapters from diverse range of authors on different aspects of how Blockchain and IoT are converging and the impacts of these developments. The book provides an extensive cross-sectional and multi-disciplinary look into this trend and how it affects artificial intelligence, cyber-physical systems, and robotics with a look at applications in aerospace, agriculture, automotive, critical infrastructures, healthcare, manufacturing, retail, smart transport systems, smart cities, and smart healthcare. Cases include the impact of Blockchain for IoT Security; decentralized access control systems in IoT;

Blockchain architecture for scalable access management in IoT; smart and sustainable IoT applications incorporating Blockchain, and more. The book presents contributions from international academics, researchers, and practitioners from diverse perspectives. Presents how Blockchain and IoT are converging and the impacts of these developments on technology and its application; Discusses IoT and Blockchain from cross-sectional and multi-disciplinary perspectives; Includes contributions from researchers, academics, and professionals from around the world.

e-ISSP 2020 Springer
Nature
This book reflects the latest research trends, methods and experimental results in the field of electrical and information technologies for rail transportation, which covers abundant state-of-the-art research theories and ideas. As a vital field of research that is highly relevant to current developments in a number of technological domains, the subjects it covered include intelligent computing, information processing,

Communication Technology, Automatic Control, etc. The objective of the proceedings is to provide a major interdisciplinary forum for researchers, engineers, academicians as well as industrial professionals to present the most innovative research and development in the field of rail transportation electrical and information technologies. Engineers and researchers in academia, industry, and the government will also explore an insight view of the solutions that combine ideas from multiple disciplines in this field. The volumes serve as an excellent reference work for researchers and graduate students working on rail transportation, electrical and information technologies.

Proceedings of the 23rd International Conference of the Catalan Association for Artificial Intelligence
Springer Nature

This book presents the refereed proceedings of the 6th International Conference on Advanced Machine Learning Technologies and Applications (AMLTA 2021) held in Cairo, Egypt, during March 22-24, 2021, and organized by the Scientific

Research Group of Egypt (SRGE). The papers cover current research Artificial Intelligence Against COVID-19, Internet of Things Healthcare Systems, Deep Learning Technology, Sentiment analysis, Cyber-Physical System, Health Informatics, Data Mining, Power and Control Systems, Business Intelligence, Social media, Control Design, and Smart Systems.

Proceedings of CIPR 2021
MDPI

Frontiers in Animal Science - Highlights From Its First Year
Frontiers Media
SAICTR 2021 4th International Conference on Tourism Research
Academic Conferences International
12th International Conference, ICSI 2021, Qingdao, China, July 17-21, 2021, Proceedings, Part II
Springer Nature

This book brings together papers from the 2019 International Conference on Communications, Signal Processing, and Systems, which was held in Urumqi, China, on July 20-22, 2019. Presenting the latest developments and discussing the interactions and links between these multidisciplinary fields, the book spans topics

ranging from communications to signal processing and systems. It is chiefly intended for undergraduate and graduate students in electrical engineering, computer science and mathematics, researchers and engineers from academia and industry, as well as government employees.

Advances in Computational Intelligence and Informatics
Springer Nature

This book presents the combined proceedings of the 13th International Conference on Multimedia and Ubiquitous Engineering (MUE 2019) and the 14th International Conference on Future Information Technology (Future Tech 2019), both held in Xi'an, China, April 24 - 26, 2019. The aim of these two meetings was to promote discussion and interaction among academics, researchers and professionals in the field of ubiquitous computing technologies. These proceedings reflect the state of the art in the development of computational methods, involving theory, algorithms, numerical simulation, error and uncertainty analysis and novel applications of new

processing techniques in engineering, science, and other disciplines related to ubiquitous computing. *Proceedings of the 11th International Conference on Computer Engineering and Networks Academic Conferences International* This conference proceeding is a collection of the papers accepted by the CENet2021 - the 11th International Conference on Computer Engineering and Networks held on October 21-25, 2021 in Hechi, China. The topics focus but are not limited to Internet of Things and Smart Systems, Artificial Intelligence and Applications, Communication System Detection, Analysis and Application, and Medical Engineering and Information 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. This will enable them to produce, maintain, and manage systems with high levels of trustworthiness and complexity.

Volume II: A Collection of Latest Research on Technology Issues

Machine Learning Mastery The book Intelligent Systems and Applications - Proceedings of the 2020 Intelligent Systems Conference is a remarkable collection of chapters covering a wider range of topics in areas of intelligent systems and artificial intelligence and their applications to the real world. The Conference attracted a total of 545 submissions from many academic pioneering researchers, scientists, industrial engineers, students from all around the world. These submissions underwent a double-blind peer review process. Of those 545 submissions, 177 submissions have

been selected to be included in these proceedings. As intelligent systems continue to replace and sometimes outperform human intelligence in decision-making processes, they have enabled a larger number of problems to be tackled more effectively. This branching out of computational intelligence in several directions and use of intelligent systems in everyday applications have created the need for such an international conference which serves as a venue to report on up-to-the-minute innovations and developments. This book collects both theory and application based chapters on all aspects of artificial intelligence, from classical to intelligent scope. We hope that readers find the volume interesting and valuable; it provides the state of the art intelligent methods and techniques for solving real world problems along with a vision of the future research.

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