

Automatic Detection Of Salient Objects And Spatial

Computer Vision in Sports
 Medical Imaging and Computer-Aided Diagnosis
 Database Semantics
 Proceedings of the International Conference on ISMAC in Computational Vision and Bio-Engineering 2018 (ISMAC-CVB)
 Computer Vision -- ACCV 2014
 13th European Conference, Zurich, Switzerland, September 6-12, 2014, Proceedings, Part III
 Video Search and Mining
 Computational Intelligence Methods in COVID-19: Surveillance, Prevention, Prediction and Diagnosis
 Semantic Issues in Multimedia Systems
 Image Processing and Communications Challenges 4
 International Conference, CSIE 2011, Zhengzhou, China, May 21-22, 2011. Proceedings, Part II
 4th International Conference of Pioneering Computer Scientists, Engineers and Educators, ICPCSEE 2018, Zhengzhou, China, September 21-23, 2018, Proceedings, Part I
 Cognitive Internet of Things: Frameworks, Tools and Applications
 Electronics, Communications and Networks IV
 Multimedia Data Mining and Knowledge Discovery
 12th Asian Conference on Computer Vision, Singapore, Singapore, November 1-5, 2014, Revised Selected Papers, Part III
 Bridging the Semantic Gap
 Computer Vision and Information Technology
 8th International Conference, ICAART 2016, Rome, Italy, February 24-26, 2016, Revised Selected Papers
 11th International Symposium, ISVC 2015, Las Vegas, NV, USA, December 14-16, 2015, Proceedings, Part II
 Remote Sensing for Target Object Detection and Identification
 SIGIR 2004
 CCF Chinese Conference, CCCV 2015, Xi'an, China, September 18-20, 2015, Proceedings, Part II
 Intelligent Analysis of Multimedia Information
 Image and Video Retrieval
 10th Asian Conference on Computer Vision, Queenstown, New Zealand, November 8-12, 2010, Revised Selected Papers, Part II
 11th International Symposium on Neural Networks, ISNN 2014, Hong Kong and Macao, China, November 28 -- December 1, 2014. Proceedings
 The Oxford Handbook of Attention
 International Conference, CIVR ... : Proceedings
 Computer Graphics and Multimedia
 Proceedings of the Seventh International Conference on Genetic and Evolutionary Computing, ICGEC 2013, August 25 - 27, 2013 - Prague, Czech Republic
 Proceedings of the 27th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, Sheffield, UK July 25-29 2004
 16th International Conference, CAIP 2015, Valletta, Malta, September 2-4, 2015, Proceedings, Part II
 International Seminar, Dagstuhl Castle, Germany, June 5-9, 2006, Revised Papers
 16th International Conference, ACIVS 2015, Catania, Italy, October 26-29, 2015. Proceedings
 Knowledge-Driven Multimedia Information Extraction and Ontology Evolution
 RGB-D Image Analysis and Processing
 Computer Vision - ECCV 2016
 Proceedings of 2021 International Conference on Medical Imaging and Computer-Aided Diagnosis (MICAD 2021)

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Computer Vision in Sports Springer Science & Business Media

During the last three decades, there have been enormous advances in our understanding of the neural mechanisms of selective attention at the network as well as the cellular level. The Oxford Handbook of Attention brings together the different research areas that constitute contemporary attention research into one comprehensive and authoritative volume. In 40 chapters, it covers the most important aspects of attention research from the areas of cognitive psychology, neuropsychology, human and animal neuroscience, computational modelling, and philosophy. The book is divided into 4 main sections. Following an introduction from Michael Posner, the book starts by looking at theoretical models of attention. The next two sections are dedicated to spatial attention and non-spatial attention respectively. Within section 4, the authors consider the interactions between attention and other psychological domains. The last two sections focus on attention-related disorders, and finally, on computational models of attention. Aimed at both scholars and students, the Oxford Handbook of Attention provides a concise and state-of-the-art review of the current literature in this field.

Medical Imaging and Computer-Aided Diagnosis Springer Science & Business Media

This two-volume set (CCIS 152 and CCIS 153) constitutes the refereed proceedings of the International Conference on Computer Science and Information Engineering, CSIE 2011, held in Zhengzhou, China, in May 2011. The 159 revised full papers presented in both volumes were carefully reviewed and selected from a large number of submissions. The papers present original research results that are broadly relevant to the theory and applications of Computer Science and Information Engineering and address a wide variety of topics such as algorithms, automation, artificial intelligence, bioinformatics, computer networks, computer security, computer vision, modeling and simulation, databases, data mining, e-learning, e-commerce, e-business, image processing, knowledge management, multimedia, mobile computing, natural computing, open and innovative education, pattern recognition, parallel computing, robotics, wireless networks, and Web applications.

Database Semantics I. K. International Pvt Ltd

Art, technology, and information science combine into computer graphics and multimedia. This book explores the parameters of the application, problems and solutions related to digital disciplines. Contributing authors include computer scientists, multimedia researchers, computer artists, graphic designers, and digital media specialists.

Proceedings of the International Conference on ISMAC in Computational Vision and Bio-Engineering 2018 (ISMAC-CVB) CRC Press

The volume LNCS 8866 constitutes the refereed proceedings of the 11th International Symposium on Neural Networks, ISNN 2014, held in Hong Kong and Macao, China on November/ December 2014. The 71 revised full papers presented were carefully reviewed and selected from 119 submissions. These papers cover all major topics of the theoretical research, empirical study and applications of neural networks research as follows. The focus is on following topics such as analysis, modeling, and applications.

Computer Vision -- ACCV 2014 Springer Science & Business Media

The first book of its kind devoted to this topic, this comprehensive text/reference presents state-of-the-art research and reviews current challenges in the application of computer vision to problems in sports. Opening with a detailed introduction to the use of computer vision across the entire life-cycle of a sports event, the text then progresses to examine cutting-edge techniques for tracking the ball, obtaining the whereabouts and pose of the players, and identifying the sport being played from video footage. The work concludes by investigating a selection of systems for the automatic analysis

and classification of sports play. The insights provided by this pioneering collection will be of great interest to researchers and practitioners involved in computer vision, sports analysis and media production.

13th European Conference, Zurich, Switzerland, September 6-12, 2014, Proceedings, Part III Springer Nature

This book presents the state of the art in the areas of ontology evolution and knowledge-driven multimedia information extraction, placing an emphasis on how the two can be combined to bridge the semantic gap. This was also the goal of the EC-sponsored BOEMIE (Bootstrapping Ontology Evolution with Multimedia Information Extraction) project, to which the authors of this book have all contributed. The book addresses researchers and practitioners in the field of computer science and more specifically in knowledge representation and management, ontology evolution, and information extraction from multimedia data. It may also constitute an excellent guide to students attending courses within a computer science study program, addressing information processing and extraction from any type of media (text, images, and video). Among other things, the book gives concrete examples of how several of the methods discussed can be applied to athletics (track and field) events.

Video Search and Mining Oxford University Press

The two volumes CCIS 546 and 547 constitute the refereed proceedings of the CCF Chinese Conference on Computer Vision, CCCV 2015, held in Xi'an, China, in September 2015. The total of 89 revised full papers presented in both volumes were carefully reviewed and selected from 176 submissions. The papers address issues such as computer vision, machine learning, pattern recognition, target recognition, object detection, target tracking, image segmentation, image restoration, face recognition, image classification.

Computational Intelligence Methods in COVID-19: Surveillance, Prevention, Prediction and Diagnosis Springer

The eight-volume set comprising LNCS volumes 9905-9912 constitutes the refereed proceedings of the 14th European Conference on Computer Vision, ECCV 2016, held in Amsterdam, The Netherlands, in October 2016. The 415 revised papers presented were carefully reviewed and selected from 1480 submissions. The papers cover all aspects of computer vision and pattern recognition such as 3D computer vision; computational photography, sensing and display; face and gesture; low-level vision and image processing; motion and tracking; optimization methods; physicsbased vision, photometry and shape-from-X; recognition: detection, categorization, indexing, matching; segmentation, grouping and shape representation; statistical methods and learning; video: events, activities and surveillance; applications. They are organized in topical sections on detection, recognition and retrieval; scene understanding; optimization; image and video processing; learning; action activity and tracking; 3D; and 9 poster sessions.

Semantic Issues in Multimedia Systems IGI Global

The seven-volume set comprising LNCS volumes 8689-8695 constitutes the refereed proceedings of the 13th European Conference on Computer Vision, ECCV 2014, held in Zurich, Switzerland, in September 2014. The 363 revised papers presented were carefully reviewed and selected from 1444 submissions. The papers are organized in topical sections on tracking and activity recognition; recognition; learning and inference; structure from motion and feature matching; computational photography and low-level vision; vision; segmentation and saliency; context and 3D scenes; motion and 3D scene analysis; and poster sessions.

Automatic Salient Object Detection and Segmentation Computer Vision - ECCV 2012 12th European Conference on Computer Vision, Florence, Italy, October 7-13, 2012, Proceedings, Part II

This book provides insights into the research in the fields of artificial intelligence in combination with Internet of Things (IoT) technologies. Today, the integration of artificial intelligence and IoT technologies is attracting considerable interest from both researchers and developers from

academic fields and industries around the globe. It is foreseeable that the next generation of IoT research will focus on artificial intelligence/beyond artificial intelligence approaches. The rapidly growing numbers of artificial intelligence algorithms and big data solutions have significantly increased the number of potential applications for IoT technologies, but they have also created new challenges for the artificial intelligence community. This book shares the latest scientific advances in this area.

[Image Processing and Communications Challenges 4](#) Springer Science & Business Media

Data analytics is proving to be an ally for epidemiologists as they join forces with data scientists to address the scale of crises. Analytics examined from many sources can derive insights and be used to study and fight global outbreaks. Pandemic analytics is a modern way to combat a problem as old as humanity itself: the proliferation of disease. *Machine Learning and Data Analytics for Predicting, Managing, and Monitoring Disease* explores different types of data and discusses how to prepare data for analysis, perform simple statistical analyses, create meaningful data visualizations, predict future trends from data, and more by applying cutting edge technology such as machine learning and data analytics in the wake of the COVID-19 pandemic. Covering a range of topics such as mental health analytics during COVID-19, data analysis and machine learning using Python, and statistical model development and deployment, it is ideal for researchers, academicians, data scientists, technologists, data analysts, diagnosticians, healthcare professionals, computer scientists, and students.

International Conference, CSIE 2011, Zhengzhou, China, May 21-22, 2011. Proceedings, Part II Springer

The emergence of content- and context-aware search engines, which not only personalize searching and delivery but also the content, has caused the emergence of new infrastructures capable of end-to-end ubiquitous transmission of personalized multimedia content to any device on any network at any time. Personalizing and adapting content requires processing of content and recognizing patterns in users' behaviour on the other. Personalizing and adapting the semantic content of multimedia enables applications to make just-in-time intelligent decisions regarding this content, which in turn makes interaction with the multimedia content an individual and individually rewarding experience. Highlighting the changing nature of the field, *Advances in Semantic Media Adaptation and Personalization, Volume Two* discusses the state of the art, recent advances, and future outlooks for semantic media adaptation and personalization. Topics include: Collaborative Content Modeling Automatic Content Feature Extraction to Content Models Semantic Languages for Content Description Video Content Adaptation Adaptive Video Content Retrieval Content Similarity Detection Personalized Content Podcasting Adaptive Web Interaction As content and service providers recognize the value of new services and new markets, they will invest in technologies that adapt and personalize content. Industry, in response, has released new standards such as MPEG-7, MPEG21, and VC-1 that enable propagation of semantic media, adaptation, and personalization. Consequently, a broad range of applications are emerging across many industry sectors, such as music, film, games, television, and sports. Bringing together insight from researchers and practitioners, this book provides a sampling of the latest thinking in the field.

4th International Conference of Pioneering Computer Scientists, Engineers and Educators, ICPCSEE 2018, Zhengzhou, China, September 21-23, 2018, Proceedings, Part I IGI Global

The novel coronavirus disease 2019 (COVID-19) pandemic has posed a major threat to human life and health. This book is beneficial for interdisciplinary students, researchers, and professionals to understand COVID-19 and how computational intelligence can be used for the purpose of surveillance, control, prevention, prediction, diagnosis, and potential treatment of the disease. The book contains different aspects of COVID-19 that includes fundamental knowledge, epidemic forecast models, surveillance and tracking systems, IoT- and IoMT-based integrated systems for COVID-19, social network analysis systems for COVID-19, radiological images (CT, X-ray) based diagnosis system, and computational intelligence and in silico drug design and drug repurposing methods against COVID-19 patients. The contributing authors of this volume are experts in their fields and they are from various reputed universities and institutions across the world. This volume is a valuable and comprehensive resource for computer and data scientists, epidemiologists, radiologists, doctors, clinicians, pharmaceutical professionals, along with graduate and research students of interdisciplinary and multidisciplinary sciences.

[Cognitive Internet of Things: Frameworks, Tools and Applications](#) CRC Press

Automatic Saliency Object Detection and Segmentation Computer Vision – ECCV 2012 12th European Conference on Computer Vision, Florence, Italy, October 7-13, 2012, Proceedings, Part II Springer

Electronics, Communications and Networks IV Springer

The 4th International Conference on Electronic, Communications and Networks (CECNet2014) inherits the fruitfulness of the past three conferences and lays a foundation for the forthcoming next year in Shanghai. CECNet2014 was hosted by Hubei University of Science and Technology, China, with the main objective of providing a comprehensive global forum

[Multimedia Data Mining and Knowledge Discovery](#) Springer Science & Business Media

Target object detection and identification are among the primary uses for a remote sensing system. This is crucial in several fields, including environmental and urban monitoring, hazard and disaster management, and defense and military. In recent years, these analyses have used the tremendous amount of data acquired by sensors mounted on satellite, airborne, and unmanned aerial vehicle (UAV) platforms. This book promotes papers exploiting different remote sensing data for target object detection and identification, such as synthetic aperture radar (SAR) imaging and multispectral and hyperspectral imaging. Several cutting-edge contributions, which provide examples of how to select a technology or another depending on the specific application, will be detailed.

[12th Asian Conference on Computer Vision, Singapore, Singapore, November 1-5, 2014, Revised Selected Papers, Part III](#) Springer

The two volume set LNCS 9256 and 9257 constitutes the refereed proceedings of the 16th International Conference on Computer Analysis of Images and Patterns, CAIP 2015, held in Valletta, Malta, in September 2015. The 138 papers presented were carefully reviewed and selected from numerous submissions. CAIP 2015 is the sixteenth in the CAIP series of biennial international conferences devoted to all aspects of computer vision, image analysis and processing, pattern recognition, and related fields.

Bridging the Semantic Gap Springer

This textbook collects a series of research papers in the area of Image Processing and Communications which not only introduce a summary of current technology but also give an outlook of potential future problems in this area. Image Processing and Communications have undergone an impressive development. Recent evolutions in this area have led to a pervasive spread in many areas of human life and have become such a critical component in contemporary science and technology. The book is divided into two parts. The first part contains recent research results in image processing, whilst the second part contains recent research results in communications.

Computer Vision and Information Technology Springer

As cameras become more pervasive in our daily life, vast amounts of video data are generated. The popularity of YouTube and similar websites such as Tudou and Youku provides strong evidence for the increasing role of video in society. One of the main challenges confronting us in the era of information technology is to - fectively rely on the huge and rapidly growing video data accumulating in large multimedia archives. Innovative video processing and analysis techniques will play an increasingly important role in resolving the difficult task of video search and retrieval. A wide range of video-based applications have benefited from - vances in video search and mining including multimedia information management, human-computer interaction, security and surveillance, copyright protection, and personal entertainment, to name a few. This book provides an overview of emerging new approaches to video search and mining based on promising methods being developed in the computer vision and image analysis community. Video search and mining is a rapidly evolving discipline whose aim is to capture interesting patterns in video data. It has become one of the core areas in the data mining research community. In comparison to other types of data mining (e. g. text), video mining is still in its infancy. Many challenging research problems are facing video mining researchers.

8th International Conference, ICAART 2016, Rome, Italy, February 24-26, 2016, Revised Selected Papers Springer

This book contains revised and extended versions of selected papers from the 8th International Conference on Agents and Artificial Intelligence, ICAART 2016, held in Rome, Italy, in February 2016. The 17 revised full papers were carefully reviewed and selected from 149 initial submissions. The papers are organized in two sections: agents and artificial intelligence. They address open research trends and highlight in an innovative manner the trends in intelligent multi-agent systems, natural language processing, and knowledge representation.