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Stan Z. Li, Anil K. Jain, Jiankang Deng

Handbook of Face Recognition Stan Z. Li,Anil K. Jain,2005-12-06 Although the history of computer-aided face recognition stretches back to the 1960s, automatic face recognition remains an unsolved problem and still offers a great challenge to computer-vision and pattern recognition researchers. This handbook is a comprehensive account of face recognition research and technology, written by a group of leading international researchers. Twelve chapters cover all the sub-areas and major components for designing operational face recognition systems. Background, modern techniques, recent results, and challenges and future directions are considered. The book is aimed at practitioners and professionals planning to work in face recognition or wanting to become familiar with the state-of- the-art technology. A comprehensive handbook, by leading research authorities, on the concepts, methods, and algorithms for automated face detection and recognition. Essential reference resource for researchers and professionals in biometric security, computer vision, and video image analysis.

Face Recognition in Adverse Conditions De Marsico, Maria,2014-04-30 Facial recognition software has improved by leaps and bounds over the past few decades, with error rates decreasing significantly within the past ten years. Though this is true, conditions such as poor lighting, obstructions, and profile-only angles have continued to persist in preventing wholly accurate readings. Face Recognition in Adverse Conditions examines how the field of facial recognition takes these adverse conditions into account when designing more effective applications by discussing facial recognition under real world PIE variations, current applications, and the future of the field of facial recognition research. The work is intended for academics, engineers, and researchers specializing in the field of facial recognition.

Face Recognition Harry Wechsler, Jonathon P. Phillips, Vicki Bruce, Francoise Fogelman Soulie, Thomas S. Huang, 2012-12-06 The NATO Advanced Study Institute (ASI) on Face Recognition: From Theory to Applications took place in Stirling, Scotland, UK, from June 23 through July 4, 1997. The meeting brought together 95 participants (including 18 invited lecturers) from 22 countries. The lecturers are leading researchers from academia, government, and industry from allover the world. The lecturers presented an encompassing view of face recognition, and identified trends for future developments and the means for implementing robust face recognition systems. The scientific programme consisted of invited lectures, three panels, and (oral and poster) presentations from students attending the AS!. As a result of lively interactions between the participants, the following topics emerged as major themes of the meeting: (i) human processing of face recognition and its relevance to forensic systems, (ii) face coding, (iii) connectionist methods and support vector machines (SVM), (iv) hybrid methods for face recognition, and (v) predictive learning and performance evaluation. The goals of the panels were to provide links among the lectures and to emphasis the themes of the meeting. The topics of the panels were: (i) How the human visual system processes faces, (ii) Issues in applying face recognition: data bases, evaluation and systems, and (iii) Classification issues involved in face recognition. The presentations made by students gave them an opportunity to receive feedback from the invited lecturers and suggestions for future work.

Handbook of Face Recognition Stan Z. Li,Anil K. Jain,Jiankang Deng,2024-01-30 The history of computer-aided face recognition dates to the 1960s, yet the problem of automatic face recognition – a task that humans perform routinely and effortlessly in our daily lives – still poses great challenges, especially in unconstrained conditions. This highly anticipated new edition provides a comprehensive account of face recognition research and technology, spanning the full range of topics needed for designing operational recognition systems. After a thorough introduction, each subsequent chapter focuses on a specific topic, reviewing background information, up-to-date techniques, and recent results, as well as offering challenges and future directions. Topics and features: Fully updated, revised, and expanded, covering the entire spectrum of concepts, methods, and algorithms for automated detection and recognition systems Provides comprehensive coverage of face detection, alignment, feature extraction, and

recognition technologies, and issues in evaluation, systems, security, and applications Contains numerous step-by-step algorithms Describes a broad range of applications from person verification, surveillance, and security, to entertainment Presents contributions from an international selection of preeminent experts Integrates numerous supporting graphs, tables, charts, and performance data This practical and authoritative reference is an essential resource for researchers, professionals and students involved in image processing, computer vision, biometrics, security, Internet, mobile devices, human-computer interface, E-services, computer graphics and animation, and the computer game industry.

Face Detection and Recognition Asit Kumar Datta, Madhura Datta, Pradipta Kumar Banerjee, 2015-10-28 Face detection and recognition are the nonintrusive biometrics of choice in many security applications. Examples of their use include border control, driver's license issuance, law enforcement investigations, and physical access control. Face Detection and Recognition: Theory and Practice elaborates on and explains the theory and practice of face de

Face Detection and Gesture Recognition for Human-Computer Interaction Ming-Hsuan Yang, Narendra Ahuja, 2001-08-31 Researchers have been working under the premise that a computer can recognize information about a user's identity, state, and intent from facial expression and hand motions. Because of the immense number of variables in processing facial images (scale, location, orientations, pose, etc) the first step is getting computers to recognize faces. Gesture recognition is similarly complicated. Yang (Honda R & D Americas, Inc.) and Ahuja (computer science, U. of Illinois at Urbana-Champaign) present their own work in these related fields and summarize some recent findings by other researchers. They present an algorithm for extracting and recognizing motion patterns, present experimental results on motion patterns related to 40 American Sign Language gestures, discuss a model that extracts skin tone regions for the reduction of computation needed, present experimental results for the model, and describe a (Sparse Network of Winnows) SnoW-based face detector. Finally future directions of research are examined. Annotation copyrighted by Book News Inc., Portland, OR.

Our Biometric Future Kelly Gates, 2011-01-23 Since the 1960s, a significant effort has been underway to program computers to "see" the human face—to develop automated systems for identifying faces and distinguishing them from one another—commonly known as Facial Recognition Technology. While computer scientists are developing FRT in order to design more intelligent and interactive machines, businesses and states agencies view the technology as uniquely suited for "smart" surveillance—systems that automate the labor of monitoring in order to increase their efficacy and spread their reach. Tracking this technological pursuit, Our Biometric Future identifies FRT as a prime example of the failed technocratic approach to governance, where new technologies are pursued as shortsighted solutions to complex social problems. Culling news stories, press releases, policy statements, PR kits and other materials, Kelly Gates provides evidence that, instead of providing more security for more people, the pursuit of FRT is being driven by the priorities of corporations, law enforcement and state security agencies, all convinced of the technology's necessity and unhindered by its complicated and potentially destructive social consequences. By focusing on the politics of developing and deploying these technologies, Our Biometric Future argues not for the inevitability of a particular technological future, but for its profound contingency and contestability.

Reliable Face Recognition Methods Harry Wechsler,2009-04-05 This book seeks to comprehensively address the face recognition problem while gaining new insights from complementary fields of endeavor. These include neurosciences, statistics, signal and image processing, computer vision, machine learning and data mining. The book examines the evolution of research surrounding the field to date, explores new directions, and offers specific guidance on the most promising venues for future research and development. The book's focused approach and its clarity of presentation make this an excellent reference work.

Face Detection and Adaptation Cha Zhang, Zhengyou Zhang, 2010-10-10 Face detection, because of its vast array of applications, is one of the most active research areas in computer vision. In this book, we review various approaches to face detection developed in the past decade, with more emphasis on boosting-based learning algorithms. We then present a series of algorithms that are empowered by the statistical view of boosting and the concept of multiple instance learning. We start by describing a boosting learning framework that is capable to handle billions of training examples. It differs from traditional bootstrapping schemes in that no intermediate thresholds need to be set during training, yet the total number of negative examples used for feature selection remains constant and focused (on the poor performing ones). A multiple instance pruning scheme is then adopted to set the intermediate thresholds after boosting learning. This algorithm generates detectors that are both fast and accurate. We then present two multiple instance learning schemes for face detection, multiple instance learning boosting (MILBoost) and winner-take-all multiple category boosting (WTA-McBoost). MILBoost addresses the uncertainty in accurately pinpointing the location of the object being detected, while WTA-McBoost addresses the uncertainty in determining the most appropriate subcategory label for multiview object detection. Both schemes can resolve the ambiguity of the labeling process and reduce outliers during training, which leads to improved detector performances. In many applications, a detector trained with generic data sets may not perform optimally in a new environment. We propose detection adaption, which is a promising solution for this problem. We present an adaptation scheme based on the Taylor expansion of the boosting learning objective function, and we propose to store the second order statistics of the generic training data for future adaptation. We show that with a small amount of labeled data in the new environment, the detector's performance can be greatly improved. We also present two interesting applications where boosting learning was applied successfully. The first application is face verification for filtering and ranking image/video search results on celebrities. We present boosted multi-task learning (MTL), yet another boosting learning algorithm that extends MILBoost with a graphical model. Since the available number of training images for each celebrity may be limited, learning individual classifiers for each person may cause overfitting. MTL jointly learns classifiers for multiple people by sharing a few boosting classifiers in order to avoid overfitting. The second application addresses the need of speaker detection in conference rooms. The goal is to find who is speaking, given a microphone array and a panoramic video of the room. We show that by combining audio and visual features in a boosting framework, we can determine the speaker's position very accurately. Finally, we offer our thoughts on future directions for face detection. Table of Contents: A Brief Survey of the Face Detection Literature / Cascade-based Real-Time Face Detection / Multiple Instance Learning for Face Detection / Detector Adaptation / Other Applications / Conclusions and Future Work

Recent Advances in Face Recognition Kresimir Delac, Mislav Grgic, Sonja Grgic, 2008-12-01 The main idea and the driver of further research in the area of face recognition are security applications and human-computer interaction. Face recognition represents an intuitive and non-intrusive method of recognizing people and this is why it became one of three identification methods used in e-passports and a biometric of choice for many other security applications. This goal of this book is to provide the reader with the most up to date research performed in automatic face recognition. The chapters presented use innovative approaches to deal with a wide variety of unsolved issues.

Multi-Modal Face Presentation Attack Detection Jun Wan, Guodong Guo, Sergio Escalera, Hugo Jair Escalante, Stan Z. Li, 2022-05-31 For the last ten years, face biometric research has been intensively studied by the computer vision community. Face recognition systems have been used in mobile, banking, and surveillance systems. For face recognition systems, face spoofing attack detection is a crucial stage that could cause severe security issues in government sectors. Although effective methods for face presentation attack detection have been proposed so far, the problem is still unsolved due to the difficulty in the design of features and methods that can work for new spoofing attacks. In addition, existing datasets for studying the problem are relatively small which hinders the progress in this relevant domain. In order to attract researchers to this important field

and push the boundaries of the state of the art on face anti-spoofing detection, we organized the Face Spoofing Attack Workshop and Competition at CVPR 2019, an event part of the ChaLearn Looking at People Series. As part of this event, we released the largest multi-modal face anti-spoofing dataset so far, the CASIA-SURF benchmark. The workshop reunited many researchers from around the world and the challenge attracted more than 300 teams. Some of the novel methodologies proposed in the context of the challenge achieved state-of-the-art performance. In this manuscript, we provide a comprehensive review on face anti-spoofing techniques presented in this joint event and point out directions for future research on the face anti-spoofing field.

Face Recognition Technologies Douglas Yeung, Rebecca Balebako, Carlos Ignacio Gutierrez Gaviria, Michael Chaykowsky, 2020-05-15 Face recognition technologies (FRTs) have many practical security-related purposes, but advocacy groups and individuals have expressed apprehensions about their use. This report highlights the high-level privacy and bias implications of FRT systems. The authors propose a heuristic with two dimensions -- consent status and comparison type -- to help determine a proposed FRT's level of privacy and accuracy. They also identify privacy and bias concerns.

Recognition of Humans and Their Activities Using Video Rama Chellappa, Amit K. Roy-Chowdhury, S. Kevin Zhou, 2006-01-01 The recognition of humans and their activities from video sequences is currently a very active area of research because of its applications in video surveillance, design of realistic entertainment systems, multimedia communications, and medical diagnosis. In this lecture, we discuss the use of face and gait signatures for human identification and recognition of human activities from video sequences. We survey existing work and describe some of the more wellknown methods in these areas. We also describe our own research and outline future possibilities. In the area of face recognition, we start with the traditional methods for image-based analysis and then describe some of the more recent developments related to the use of video sequences, 3D models, and techniques for representing variations of illumination. We note that the main challenge facing researchers in this area is the development of recognition strategies that are robust to changes due to pose, illumination, disguise, and aging. Gait recognition is a more recent area of research in video understanding, although it has been studied for a long time in psychophysics and kinesiology. The goal for video scientists working in this area is to automatically extract the parameters for representation of human gait. We describe some of the techniques that have been developed for this purpose, most of which are appearance based. We also highlight the challenges involved in dealing with changes in viewpoint and propose methods based on image synthesis, visual hull, and 3D models. In the domain of human activity recognition, we present an extensive survey of various methods that have been developed in different disciplines like artificial intelligence, image processing, pattern recognition, and computer vision. We then outline our method for modeling complex activities using 2D and 3D deformable shape theory. The wide application of automatic human identification and activity recognition methods will require the fusion of different modalities like face and gait, dealing with the problems of pose and illumination variations, and accurate computation of 3D models. The last chapter of this lecture deals with these areas of future research.

Advances in Future Manufacturing Engineering Guohui Yang, 2015-06-11 The International Conference on Future Manufacturing Engineering (ICFME 2014) was held in Hong Kong, December 10-11, 2014. It gathered academics, industry managers and experts, manufacturing engineers, university students all interested or proficient in the field of manufacturing engineering, including research, design and development of systems, p

Microelectronic Systems Albert Heuberger, Günter Elst, Randolf Hanke, 2011-12-26 This book is dedicated to Prof. Dr. Heinz Gerhäuser on the occasion of his retirement both from the position of Executive Director of the Fraunhofer Institute for Integrated Circuits IIS and from the Endowed Chair of Information Technologies with a Focus on Communication Electronics (LIKE) at the Friedrich-Alexander-Universität Erlangen-Nürnberg. Heinz Gerhäuser's vision and entrepreneurial spirit have made the Fraunhofer IIS one of the most successful and renowned German research

institutions. He has been Director of the Fraunhofer IIS since 1993, and under his leadership it has grown to become the largest of Germany's 60 Fraunhofer Institutes, a position it retains to this day, currently employing over 730 staff. Likely his most important scientific as well as application-related contribution was his pivotal role in the development of the mp3 format, which would later become a worldwide success. The contributions to this Festschrift were written by both Fraunhofer IIS staff and external project team members in appreciation of Prof. Dr. Gerhäuser's lifetime academic achievements and his inspiring leadership at the Fraunhofer IIS. The papers reflect the broad spectrum of the institute's research activities and are grouped into sections on circuits, information systems, visual computing, and audio and multimedia. They provide academic and industrial researchers in fields like signal processing, sensor networks, microelectronics, and integrated circuits with an up-to-date overview of research results that have a huge potential for cutting-edge industrial applications.

The Coming Good Society William F. Schulz, Sushma Ramen, 2020-06-09 "Challenge[s] all of us to think deeply about what kind of society we and our children and our children's children will want to live in." (Margaret L. Huang, former Executive Director, Amnesty International USA) A rights revolution is under way. Today the range of nonhuman entities thought to deserve rights is exploding. Changes in norms and circumstances require the expansion of rights: What new rights, for example, are needed if we understand gender to be nonbinary? Does living in a corrupt state violate our rights? When biotechnology is used to change genetic code, whose rights might be violated? What rights, if any, protect our privacy from the intrusions of sophisticated surveillance techniques? Drawing on their vast experience as human rights advocates, William Schulz and Sushma Raman challenge us to think hard about how rights evolve with changing circumstances, and what rights will look like ten, twenty, or fifty years from now. The Coming Good Society details the many frontiers of rights today and the debates surrounding them. Schulz and Raman equip us with the tools to engage the present and future of rights so that we understand their importance and know where we stand. "Thoughtful and provocative."

—Human Rights Quarterly "[A] trail-blazing map through the new frontiers of rights . . . downright riveting." —Gloucester Times "An accessible primer for anyone who wishes to understand the current limitations in our notions of rights and the future challenges for which we must prepare."

—Kerry Kennedy, President, Robert F. Kennedy Human Rights "Schulz and Raman outline brilliantly where [human rights] growth may take rights in the generations to come." —Zeid Ra'ad al-Hussein, former United Nations High Commissioner for Human Rights

Analysis and Modelling of Faces and Gestures Wenyi Zhao, Shaogang Gong, Xiaou Tang, 2005-10-26 During the last 30 years, face recognition and related problems such as face detection/tracking and facial expression recognition have attracted researchers from both the engineering and psychology communities. In addition, extensive research has been carried out to study hand and body gestures. The understanding of how humans perceive these important cues has significant scientific value and extensive applications. For example, human-computer interaction, visual surveillance, and smart video indexing are active application areas. Aiming towards putting such amazing perception capability onto computer systems, researchers have made substantial progress. However, technological challenges still exist in many aspects. Following a format similar to the IEEE International Workshop on Analysis and Modeling of Faces and Gestures (AMFG) 2003, this one-day workshop (AMFG 2005) provided a focused international forum to bring together well-known researchers and research groups to review the status of recognition, analysis and modeling of faces and gestures, to discuss the challenges that we are facing, and to explore future directions. Overall, 30 papers were selected from 90 submitted manuscripts. The topics of these papers range from feature representation, robust recognition, learning, and 3D modeling to psychology. In addition, two invited talks were given, by Prof. Kanade and Dr. Phillips. The technical program was organized into four oral sessions and two poster sessions. This workshop would not have been possible without the timely reviews provided by the members of the Technical Program Committee under a tight schedule. October 2005 Wenyi Zhao Shaogang Gong Xiaoou Tang

Recent Advances in Computer Vision Mahmoud Hassaballah, Khalid M. Hosny, 2018-12-14 This book presents a collection of high-quality research by leading experts in computer vision and its applications. Each of the 16 chapters can be read independently and discusses the principles of a specific topic, reviews up-to-date techniques, presents outcomes, and highlights the challenges and future directions. As such the book explores the latest trends in fashion creative processes, facial features detection, visual odometry, transfer learning, face recognition, feature description, plankton and scene classification, video face alignment, video searching, and object segmentation. It is intended for postgraduate students, researchers, scholars and developers who are interested in computer vision and connected research disciplines, and is also suitable for senior undergraduate students who are taking advanced courses in related topics. However, it is also provides a valuable reference resource for practitioners from industry who want to keep abreast of recent developments in this dynamic, exciting and profitable research field.

Boosting-Based Face Detection and Adaptation Matthieu Salzmann, Pascal Fua, 2022-06-01 Face detection, because of its vast array of applications, is one of the most active research areas in computer vision. In this book, we review various approaches to face detection developed in the past decade, with more emphasis on boosting-based learning algorithms. We then present a series of algorithms that are empowered by the statistical view of boosting and the concept of multiple instance learning. We start by describing a boosting learning framework that is capable to handle billions of training examples. It differs from traditional bootstrapping schemes in that no intermediate thresholds need to be set during training, yet the total number of negative examples used for feature selection remains constant and focused (on the poor performing ones). A multiple instance pruning scheme is then adopted to set the intermediate thresholds after boosting learning. This algorithm generates detectors that are both fast and accurate. We then present two multiple instance learning schemes for face detection, multiple instance learning boosting (MILBoost) and winner-take-all multiple category boosting (WTA-McBoost). MILBoost addresses the uncertainty in accurately pinpointing the location of the object being detected, while WTA-McBoost addresses the uncertainty in determining the most appropriate subcategory label for multiview object detection. Both schemes can resolve the ambiguity of the labeling process and reduce outliers during training, which leads to improved detector performances. In many applications, a detector trained with generic data sets may not perform optimally in a new environment. We propose detection adaption, which is a promising solution for this problem. We present an adaptation scheme based on the Taylor expansion of the boosting learning objective function, and we propose to store the second order statistics of the generic training data for future adaptation. We show that with a small amount of labeled data in the new environment, the detector's performance can be greatly improved. We also present two interesting applications where boosting learning was applied successfully. The first application is face verification for filtering and ranking image/video search results on celebrities. We present boosted multi-task learning (MTL), yet another boosting learning algorithm that extends MILBoost with a graphical model. Since the available number of training images for each celebrity may be limited, learning individual classifiers for each person may cause overfitting. MTL jointly learns classifiers for multiple people by sharing a few boosting classifiers in order to avoid overfitting. The second application addresses the need of speaker detection in conference rooms. The goal is to find who is speaking, given a microphone array and a panoramic video of the room. We show that by combining audio and visual features in a boosting framework, we can determine the speaker's position very accurately. Finally, we offer our thoughts on future directions for face detection. Table of Contents: A Brief Survey of the Face Detection Literature / Cascade-based Real-Time Face Detection / Multiple Instance Learning for Face Detection / Detector Adaptation / Other Applications / Conclusions and Future Work

Insights Beyond Ir4.0 with Ioe Checksheets For Implementation - a Basic Reference Manual Sugumaran RS Ramachandran, 2023-03-22 This book is a compilation from various resources presented to guide readers and expose tools needed to lead and implement successful Internet of Everything

(IoE) projects in organizations. While most people probably picture computers and cell phones when the subject of technology comes up, technology is not merely a product of the modern era. ... Just as the availability of digital technology shapes how we live today, the creation of stone tools changed how pre-modern humans lived and how well they ate. Why technology is important in our daily life. This is because life without technology is pointless in today's dynamic world. Technology, which brings together tools to promote development, use and information exchange, has as its main objective of making tasks easier and the solving of many problems of mankind. We all know that Checksheets are a set of questions or list of statements that will help us keep track of all the actions that have to be performed in a work. The purpose of these checksheets is to reduce failures, increase consistency and completeness in performing a specific task. No matter what size, companies are constantly looking to increase productivity, efficiency, and performance. Naturally, the implementation of new technology can accomplish that. However, while introducing new technologies are essential in running a successful company, how we choose to introduce those technologies can make or break their success.

Free Downloadsoftware Detecting A Face In The Future Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "Free Downloadsoftware Detecting A Face In The Future," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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