Authorfacial Recognition

Nalini K Ratha,Vishal M. Patel,Rama Chellappa

Face Recognition Technology Ian Berle,2020-03-11 This book examines how face recognition technology is affecting privacy and confidentiality in an era of enhanced surveillance. Further, it offers a new approach to the complex issues of privacy and confidentiality, by drawing on Joseph K in Kafka's disturbing novel The Trial, and on Isaiah Berlin's notion of liberty and freedom. Taking into consideration rights and wrongs, protection from harm associated with compulsory visibility, and the need for effective data protection law, the author promotes ethical practices by reinterpreting privacy as a property right. To protect this right, the author advocates the licensing of personal identifiable images where appropriate. The book reviews American, UK and European case law concerning privacy and confidentiality, the effect each case has had on the developing jurisprudence, and the ethical issues involved. As such, it offers a valuable resource for students of ethico-legal fields, professionals specialising in image rights law, policy-makers, and liberty advocates and activists.

Your Face Belongs to Us Kashmir Hill,2023-09-19 NATIONAL BESTSELLER • The story of a small AI company that gave facial recognition to law enforcement, billionaires, and businesses, threatening to end privacy as we know it "The dystopian future portrayed in some science-fiction movies is already upon us. Kashmir Hill's fascinating book brings home the scary implications of this new reality."—John Carreyrou, author of Bad Blood A BEST BOOK OF THE YEAR: Financial Times, Los Angeles Times, Wired Winner of the Inc. Non-Obvious Book Award • Longlisted for the Financial Times and Schroders Business Book of the Year Award New York Times tech reporter Kashmir Hill was skeptical when she got a tip about a mysterious app called Clearview AI that claimed it could,

with 99 percent accuracy, identify anyone based on just one snapshot of their face. The app could supposedly scan a face and, in just seconds, surface every detail of a person's online life: their name, social media profiles, friends and family members, home address, and photos that they might not have even known existed. If it was everything it claimed to be, it would be the ultimate surveillance tool, and it would open the door to everything from stalking to totalitarian state control. Could it be true? In this riveting account, Hill tracks the improbable rise of Clearview AI, helmed by Hoan Ton-That, an Australian computer engineer, and Richard Schwartz, a former Rudy Giuliani advisor, and its astounding collection of billions of faces from the internet. The company was boosted by a cast of controversial characters, including conservative provocateur Charles C. Johnson and billionaire Donald Trump backer Peter Thiel—who all seemed eager to release this society-altering technology on the public. Google and Facebook decided that a tool to identify strangers was too radical to release, but Clearview forged ahead, sharing the app with private investors, pitching it to businesses, and offering it to thousands of law enforcement agencies around the world. Facial recognition technology has been quietly growing more powerful for decades. This technology has already been used in wrongful arrests in the United States. Unregulated, it could expand the reach of policing, as it has in China and Russia, to a terrifying, dystopian level. Your Face Belongs to Us is a gripping true story about the rise of a technological superpower and an urgent warning that, in the absence of vigilance and government regulation, Clearview AI is one of many new technologies that challenge what Supreme Court Justice Louis Brandeis once called "the right to be let alone."
  Face Detection and Recognition on Mobile Devices Haowei Liu,2014-11-25 This

hands-on guide gives an overview of computer vision and enables engineers to understand the implications and challenges behind mobile platform design choices. Using face-related algorithms as examples, the author surveys and illustrates how design choices and algorithms can be geared towards developing power-saving and efficient applications on resource constrained mobile platforms. Presents algorithms for face detection and recognition Explains applications of facial technologies on mobile devices Includes an overview of other computer vision technologies

  Our Biometric Future Kelly A. 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.

Facial Recognition Mark Andrejevic,Neil Selwyn,2022-08-02 Facial recognition is set to fundamentally change our experience and understanding of monitoring, surveillance, and privacy. Backed by powerful industry interests, this technology is being integrated into many areas of society – from airports to shopping malls, classrooms to casinos. Despite the promise of security and efficiency, fears are growing that this technology is inherently biased, intrusive, and oppressive, with broad-ranging societal consequences. In this timely book, Neil Selwyn and Mark Andrejevic provide a critical introduction to facial recognition. Outlining its complex social history and future technical forms, as well as its conceptual and technical underpinnings, the book considers the arguments being advanced for the continued uptake of facial recognition. In assessing these developments, the book argues that we are at the cusp of a generational shift in surveillance technology that will reconfigure our expectations of anonymity in shared and public spaces. Throughout, the book addresses a deceptively simple question: do we really want to live in a world where our face is our ID? Facial Recognition is essential reading for students and scholars of media and communications studies, surveillance studies, criminology, and sociology, as well as for anyone interested in one of the defining technologies of our times.

Face Recognition and its Disorders Sarah Bate,2017-09-09 Focusing on disorders, Bate unravels the mysteries and intricacies of facial processing from a new perspective, covering cognitive, developmental and clinical issues. Written in an engaging style and encompassing a wealth of detail,

this is a must-read for both students and researchers interested in facial recognition.

Dynamic Vision: From Images To Face Recognition Shaogang Gong,Stephen J Mckenna,Alexandra Psarrou,2000-05-11 Face recognition is a task that the human vision system seems to perform almost effortlessly, yet the goal of building computer-based systems with comparable capabilities has proven to be difficult. The task implicitly requires the ability to locate and track faces through often complex and dynamic scenes. Recognition is difficult because of variations in factors such as lighting conditions, viewpoint, body movement and facial expression. Although evidence from psychophysical and neurobiological experiments provides intriguing insights into how we might code and recognise faces, its bearings on computational and engineering solutions are far from clear. The study of face recognition has had an almost unique impact on computer vision and machine learning research at large. It raises many challenging issues and provides a good vehicle for examining some difficult problems in vision and learning. Many of the issues raised are relevant to object recognition in general.This book describes the latest models and algorithms that are capable of performing face recognition in a dynamic setting. The key question is how to design computer vision and machine learning algorithms that can operate robustly and quickly under poorly controlled and changing conditions. Consideration of face recognition as a problem in dynamic vision is perhaps both novel and important. The algorithms described have numerous potential applications in areas such as visual surveillance, verification, access control, video-conferencing, multimedia and visually mediated interaction.The book will be of special interest to researchers and academics involved in machine vision, visual

recognition and machine learning. It should also be of interest to industrial research scientists and managers keen to exploit this emerging technology and develop automated face and human recognition systems. It is also useful to postgraduate students studying computer science, electronic engineering, information or systems engineering, and cognitive psychology.

   Handbook of Face Recognition Stan Z. Li,Anil K. Jain,2011-08-22 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 face recognition systems. After a thorough introductory chapter, each of the following chapters focus on a specific topic, reviewing background information, up-to-date techniques, and recent results, as well as offering challenges and future directions. Features: fully updated, revised and expanded, covering the entire spectrum of concepts, methods, and algorithms for automated face detection and recognition systems; provides comprehensive coverage of face detection, tracking, 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; presents contributions from an international selection of experts; integrates numerous supporting graphs, tables, charts, and performance data.

   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

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Understanding Facial Recognition Difficulties in Children Nancy Mindick,2011-05-15 Can you imagine not being able to recognize those you know if they wore glasses, changed their hairstyle, or perhaps put on a hat? Prosopagnosia is a severe facial recognition disorder that is thought to impact around two per cent of the population. Frequently found in children on the autism spectrum, those with the condition have difficulties distinguishing between one face and the next, meaning that they may not recognize even those who are closest to them. Nancy L. Mindick provides parents, teachers, and other professionals with an accessible explanation of the different types, causes, and characteristics of prosopagnosia. Providing an insider's perspective on the condition, she suggests ways to recognize the signs of facial recognition difficulties in children, and offers specific ideas for ensuring that they are properly supported in their learning and social development. The issues of diagnosis and disclosure are explored, and the author offers practical management strategies for helping children to cope with the condition and to navigate the many different social situations they will encounter at home, at school, and in the community. This book offers specific, practical information for parents, teachers, child psychologists, and anyone else who wishes to support the learning and development of a child with a facial recognition disorder.

Deep Learning-Based Face Analytics Nalini K Ratha,Vishal M. Patel,Rama Chellappa,2021-08-16 This book provides an overview of different deep learning-based methods for face recognition and related problems. Specifically, the authors present methods based on autoencoders, restricted Boltzmann machines, and deep convolutional neural networks for face

detection, localization, tracking, recognition, etc. The authors also discuss merits and drawbacks of available approaches and identifies promising avenues of research in this rapidly evolving field. Even though there have been a number of different approaches proposed in the literature for face recognition based on deep learning methods, there is not a single book available in the literature that gives a complete overview of these methods. The proposed book captures the state of the art in face recognition using various deep learning methods, and it covers a variety of different topics related to face recognition. This book is aimed at graduate students studying electrical engineering and/or computer science. Biometrics is a course that is widely offered at both undergraduate and graduate levels at many institutions around the world: This book can be used as a textbook for teaching topics related to face recognition. In addition, the work is beneficial to practitioners in industry who are working on biometrics-related problems. The prerequisites for optimal use are the basic knowledge of pattern recognition, machine learning, probability theory, and linear algebra.

Portraits of Automated Facial Recognition Lila Lee-Morrison,2019-11-30 Automated facial recognition algorithms are increasingly intervening in society. This book offers a unique analysis of these algorithms from a critical visual culture studies perspective. The first part of this study examines the example of an early facial recognition algorithm called »eigenface« and traces a history of the merging of statistics and vision. The second part addresses contemporary artistic engagements with facial recognition technology in the work of Thomas Ruff, Zach Blas, and Trevor Paglen. This book argues that we must take a closer look at the technology of

automated facial recognition and claims that its forms of representation are embedded with visual politics. Even more significantly, this technology is redefining what it means to see and be seen in the contemporary world.

   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 Detection and Gesture Recognition for Human-Computer Interaction Ming-Hsuan Yang,Narendra Ahuja,2012-12-06 Traditionally, scientific fields have defined boundaries, and scientists work on research problems within those boundaries. However, from time to time those boundaries get shifted or blurred to evolve new fields. For instance, the original goal of computer vision was to understand a single image of a scene, by identifying objects, their structure, and spatial arrangements. This has been referred to as image understanding. Recently, computer vision has gradually been making the

transition away from understanding single images to analyzing image sequences, or video understanding. Video understanding deals with understanding of video sequences, e. g. , recognition of gestures, activities, facial expressions, etc. The main shift in the classic paradigm has been from the recognition of static objects in the scene to motion-based recognition of actions and events. Video understanding has overlapping research problems with other fields, therefore blurring the fixed boundaries. Computer graphics, image processing, and video databases have obvious overlap with computer vision. The main goal of computer graphics is to gener ate and animate realistic looking images, and videos. Researchers in computer graphics are increasingly employing techniques from computer vision to gen erate the synthetic imagery. A good example of this is image-based rendering and modeling techniques, in which geometry, appearance, and lighting is de rived from real images using computer vision techniques. Here the shift is from synthesis to analysis followed by synthesis.

   Kernel Learning Algorithms for Face Recognition Jun-Bao Li,Shu-Chuan Chu,Jeng-Shyang Pan,2013-09-07 Kernel Learning Algorithms for Face Recognition covers the framework of kernel based face recognition. This book discusses the advanced kernel learning algorithms and its application on face recognition. This book also focuses on the theoretical deviation, the system framework and experiments involving kernel based face recognition. Included within are algorithms of kernel based face recognition, and also the feasibility of the kernel based face recognition method. This book provides researchers in pattern recognition and machine learning area with advanced face recognition methods and its newest applications.

   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.

Human Face Recognition Using Third-Order Synthetic Neural Networks Okechukwu A. Uwechue,Abhijit S. Pandya,2012-12-06 Human Face Recognition Using Third-Order Synthetic Neural Networks explores the viability of the application of High-order synthetic neural network technology to transformation-invariant recognition of complex visual patterns. High-order networks require little training data (hence, short training times) and have been used to perform transformation-invariant recognition of relatively simple visual patterns, achieving very high recognition rates. The successful results of these methods provided inspiration to address more practical problems which have grayscale as opposed to binary patterns (e.g., alphanumeric characters, aircraft silhouettes) and are also more complex in nature as opposed to purely edge-extracted images – human face recognition is such a problem. Human Face Recognition Using Third-Order Synthetic Neural Networks serves as an excellent reference for researchers and professionals working on applying neural network technology to the recognition of complex visual patterns.

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.

Prosopagnosia Davide Rivolta,2013-09-24 This book provides readers with a simplified and comprehensive account of the cognitive and neural bases of face perception in humans. Faces are ubiquitous in our environment and we rely on them during social interactions. The human face processing system allows us to extract information about the identity, gender, age, mood, race, attractiveness and approachability of other people in about a fraction of a second, just by glancing at their faces. By introducing readers to the most relevant research on face recognition, this book seeks to answer the questions: "Why are humans so fast at recognizing faces?", "Why are humans so efficient at recognizing faces?", "Do faces represent a particular category for the human visual system?", What makes face perception in humans so special?, "Can our face recognition system fail"?. This book presents the author's findings on face perception during his research studies on both normal subjects and subjects with prosopagnosia, a neurological disorder characterized by the inability to recognize faces. The book describes two known forms of prosopagnosia: acquired prosopagnosia, which is the result of a brain lesion, and congenital prosopagnosia, which refers to a lifelong, developmental impairment of face recognition. Written in a comprehensive and accessible style, this book addresses both experts (cognitive scientists, psychologists, neuroscientists and computer scientists) and the general

public, and aims at raising awareness for a debilitating face recognition disorder, such as prosopagnosia, which is often ignored or misdiagnosed as autism, with serious consequences for the affected persons and their families.

  Speaking of Race Celeste Headlee,2021-11-02 A Boston Globe Most Anticipated Fall Book In this urgently needed guide, the PBS host, award-winning journalist, and author of We Need to Talk teaches us how to have productive conversations about race, offering insights, advice, and support. A self-described "light-skinned Black Jew," Celeste Headlee has been forced to speak about race—including having to defend or define her own—since childhood. In her career as a journalist for public media, she's made it a priority to talk about race proactively. She's discovered, however, that those exchanges have rarely been productive. While many people say they want to talk about race, the reality is, they want to talk about race with people who agree with them. The subject makes us uncomfortable; it's often not considered polite or appropriate. To avoid these painful discussions, we stay in our bubbles, reinforcing our own sense of righteousness as well as our division. Yet we gain nothing by not engaging with those we disagree with; empathy does not develop in a vacuum and racism won't just fade away. If we are to effect meaningful change as a society, Headlee argues, we have to be able to talk about what that change looks like without fear of losing friends and jobs, or being ostracized. In Speaking of Race, Headlee draws from her experiences as a journalist, and the latest research on bias, communication, and neuroscience to provide practical advice and insight for talking about race that will facilitate better conversations that can actually bring us closer together. This is the book for people who have tried to debate and educate

and argue and got nowhere; it is the book for those who have stopped talking to a neighbor or dread Thanksgiving dinner. It is an essential and timely book for all of us.

The book delves into Authorfacial Recognition. Authorfacial Recognition is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Authorfacial Recognition, encompassing both the fundamentals and more intricate discussions.

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    ○ Chapter 2: Essential Elements of Authorfacial Recognition
    ○ Chapter 3: Authorfacial Recognition in Everyday Life
    ○ Chapter 4: Authorfacial Recognition in Specific Contexts
    ○ Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Authorfacial Recognition. This chapter will explore what Authorfacial Recognition is, why Authorfacial Recognition is vital, and how to effectively learn about Authorfacial Recognition.

3. In chapter 2, the author will delve into the foundational concepts of Authorfacial Recognition. This chapter will elucidate the essential principles that must be understood to grasp Authorfacial Recognition in its entirety.

4. In chapter 3, this book will examine the practical applications of Authorfacial Recognition in daily life. The third chapter will showcase real-world examples of how Authorfacial Recognition can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Authorfacial Recognition in specific contexts. This chapter will explore how Authorfacial Recognition is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Authorfacial Recognition. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Authorfacial Recognition.

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Authorfacial Recognition Introduction

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