



# Face Detection And Recognition On Mobile Devices

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Vrochidis**

## **Face Detection And Recognition On Mobile Devices:**

**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 *Proceedings of the International Conference on Artificial Intelligence and Computer Vision (AICV2021)* Aboul Ella Hassanien, Abdelkrim Haqiq, Peter J. Tonellato, Ladjel Bellatreche, Sam Goundar, Ahmad Tahar Azar, Essaid Sabir, Driss Bouzidi, 2021-05-28 This book presents the 2nd International Conference on Artificial Intelligence and Computer Visions AICV 2021 proceeding which took place in Settat Morocco from June 28 to 30 2021 AICV 2021 is organized by the Scientific Research Group in Egypt SRGE and the Computer Networks Mobility and Modeling Laboratory IR2M Hassan 1st University Faculty of Sciences Techniques Settat Morocco This international conference highlighted essential research and developments in the fields of artificial intelligence and computer visions The book is divided into sections covering the following topics Deep Learning and Applications Smart Grid Internet of Things and Mobil Applications Machine Learning and Metaheuristics Optimization Business Intelligence and Applications Machine Vision Robotics and Speech Recognition Advanced Machine Learning Technologies Big Data Digital Transformation AI and Network Analysis Cybersecurity Feature Selection Classification and Applications Inventive Systems and Control V. Suma, Joy long-Zong Chen, Zubair Baig, Haoxiang Wang, 2021-06-07 This book presents selected papers from the 5th International Conference on Inventive Systems and Control ICISC 2021 held on 7 8 January 2021 at JCT College of Engineering and Technology Coimbatore India The book includes an analysis of the class of intelligent systems and control techniques that utilises various artificial intelligence technologies where there are no mathematical models and systems available to make them remain controlled Inspired by various existing intelligent techniques the primary goal is to present the emerging innovative models to tackle the challenges faced by the existing computing and communication technologies The proceedings of ICISC 2021 aim at presenting the state of the art research developments trends and solutions for the challenges faced by the intelligent systems and control community with the real world applications The included research articles feature the novel and unpublished research works on intelligent system representation and control *Spatially Enhanced Local Binary Patterns for Face Detection and Recognition in Mobile Device Applications* Jeaff Zheng Wang, 2013 **Artificial Intelligence Applications and Innovations** Harris Papadopoulos, Andreas S. Andreou, Max Bramer, 2010-10-02 The abundance of information and increase in computing power currently enable researchers to tackle highly complicated and challenging computational problems Solutions to such problems are now feasible using advances and innovations from the

area of Artificial Intelligence The general focus of the AIAI conference is to provide insights on how Artificial Intelligence may be applied in real world situations and serve the study analysis and modeling of theoretical and practical issues This volume contains papers selected for presentation at the 6th IFIP Conference on Artificial Intelligence Applications and Innovations AIAI 2010 and held in Larnaca Cyprus during October 6 7 2010 IFIP AIAI 2010 was co organized by the University of Cyprus and the Cyprus University of Technology and was sponsored by the Cyprus University of Technology Frederick University and the Cyprus Tourism Organization AIAI 2010 is the official conference of the WG12 5 Artificial Intelligence Applications working group of IFIP TC12 the International Federation for Information Processing Technical Committee on Artificial Intelligence AI AIAI is a conference that grows in significance every year attracting researchers from different countries around the globe It maintains high quality standards and welcomes research papers describing technical advances and engineering and industrial applications of intelligent systems AIAI 2010 was not confined to introducing how AI may be applied in real life situations but also included innovative methods techniques tools and ideas of AI expressed at the algorithmic or systemic level

*Securing Social Identity in Mobile Platforms* Thirimachos Bourlai, Panagiotis Karampelas, Vishal M. Patel, 2020-06-02 The book presents novel research in the areas of social identity and security when using mobile platforms The topics cover a broad range of applications related to securing social identity as well as the latest advances in the field including the presentation of novel research methods that are in the service of all citizens using mobile devices More specifically academic industry related and government law enforcement intelligence and defence organizations will benefit from the research topics of this book that cover the concept of identity management and security using mobile platforms from various perspectives i.e. whether a user navigates to social media accesses their own phone devices access their bank accounts uses online shopping service providers accesses their personal documents or accounts with valuable information surfs the internet or even becomes a victim of cyberattacks In all of the aforementioned cases there is a need for mobile related technologies that protect the users social identity and well being in the digital world including the use of biometrics cybersecurity software and tools active authentication and identity anti spoofing algorithms and more

**Selfie Biometrics** Ajita Rattani, Reza Derakhshani, Arun Ross, 2019-09-21 This book highlights the field of selfie biometrics providing a clear overview and presenting recent advances and challenges It also discusses numerous selfie authentication techniques on mobile devices Biometric authentication using mobile devices is becoming a convenient and important means of verifying identity for secured access and services such as telebanking and electronic transactions In this context face and ocular biometrics in the visible spectrum has gained increased attention from the research community However device mobility and operation in uncontrolled environments mean that facial and ocular images captured with mobile devices exhibit substantial degradation as a result of adverse lighting conditions specular reflections and motion and defocus blur In addition low spatial resolution and the small sensor of front facing mobile cameras further degrade the sample quality reducing the

recognition accuracy of face and ocular recognition technology when integrated into smartphones Presenting the state of the art in mobile biometric research and technology and offering an overview of the potential problems in real time integration of biometrics in mobile devices this book is a valuable resource for final year undergraduate students postgraduate students engineers researchers and academics in various fields of computer engineering Fog and Edge Computing Rajkumar Buyya,Satish Narayana Srirama,2019-01-04 A comprehensive guide to Fog and Edge applications architectures and technologies Recent years have seen the explosive growth of the Internet of Things IoT the internet connected network of devices that includes everything from personal electronics and home appliances to automobiles and industrial machinery Responding to the ever increasing bandwidth demands of the IoT Fog and Edge computing concepts have developed to collect analyze and process data more efficiently than traditional cloud architecture Fog and Edge Computing Principles and Paradigms provides a comprehensive overview of the state of the art applications and architectures driving this dynamic field of computing while highlighting potential research directions and emerging technologies Exploring topics such as developing scalable architectures moving from closed systems to open systems and ethical issues rising from data sensing this timely book addresses both the challenges and opportunities that Fog and Edge computing presents Contributions from leading IoT experts discuss federating Edge resources middleware design issues data management and predictive analysis smart transportation and surveillance applications and more A coordinated and integrated presentation of topics helps readers gain thorough knowledge of the foundations applications and issues that are central to Fog and Edge computing This valuable resource Provides insights on transitioning from current Cloud centric and 4G 5G wireless environments to Fog Computing Examines methods to optimize virtualized pooled and shared resources Identifies potential technical challenges and offers suggestions for possible solutions Discusses major components of Fog and Edge computing architectures such as middleware interaction protocols and autonomic management Includes access to a website portal for advanced online resources Fog and Edge Computing Principles and Paradigms is an essential source of up to date information for systems architects developers researchers and advanced undergraduate and graduate students in fields of computer science and engineering Deep Learning in Biometrics Mayank Vatsa,Richa Singh,Angshul Majumdar,2018-03-05 Deep Learning is now synonymous with applied machine learning Many technology giants e g Google Microsoft Apple IBM as well as start ups are focusing on deep learning based techniques for data analytics and artificial intelligence This technology applies quite strongly to biometrics This book covers topics in deep learning namely convolutional neural networks deep belief network and stacked autoencoders The focus is also on the application of these techniques to various biometric modalities face iris palmprint and fingerprints while examining the future trends in deep learning and biometric research Contains chapters written by authors who are leading researchers in biometrics Presents a comprehensive overview on the internal mechanisms of deep learning Discusses the latest developments in biometric research Examines future trends in deep learning and biometric research

Provides extensive references at the end of each chapter to enhance further study

**IoT Based Control Networks and Intelligent Systems** P. P. Joby, Marcelo S. Alencar, Przemyslaw Falkowski-Gilski, 2023-11-27 This book gathers selected papers presented at International Conference on IoT Based Control Networks and Intelligent Systems ICICNIS 2023 organized by School of Computer Science and Engineering REVA University Bengaluru India during June 21 22 2023 The book covers state of the art research insights on Internet of things IoT paradigm to access manage and control the objects things people working under various information systems and deployed under wide range of applications like smart cities healthcare industries and smart homes

**Communication and Computing Systems** B.M.K. Prasad, Krishna Kant Singh, Neelam Ruhil, Karan Singh, Richard O'Kennedy, 2017-02-15 This book is a collection of accepted papers that were presented at the International Conference on Communication and Computing Systems ICCCS 2016 Dronacharya College of Engineering Gurgaon September 9 11 2016 The purpose of the conference was to provide a platform for interaction between scientists from industry academia and other areas of society to discuss the current advancements in the field of communication and computing systems The papers submitted to the proceedings were peer reviewed by 2 3 expert referees This volume contains 5 main subject areas 1 Signal and Image Processing 2 Communication Computer Networks 3 Soft Computing Intelligent System Machine Vision and Artificial Neural Network 4 VLSI Embedded System 5 Software Engineering and Emerging Technologies

*IoT and Analytics in Renewable Energy Systems (Volume 2)* O.V. Gnana Swathika, K. Karthikeyan, Sanjeevikumar Padmanaban, 2023-08-11 Smart cities emanate from a smart renewable energy aided power grid The smart grid technologies offer an array of benefits like reliability availability and resiliency Smart grids phenomenally contribute to facilitating cities reaching those sustainability goals over time Digital technologies such as the Internet of Things IoT automation artificial intelligence AI and machine learning ML significantly contribute to the two way communication between utilities and customers in smart cities Five salient features of this book are as follows Smart grid to the smart customer Intelligent computing for smart grid applications Novel designs of IoT systems such as smart healthcare smart transportation smart home smart agriculture smart manufacturing smart grid smart education smart government smart traffic management systems Innovations in using IoT and AI in improving resilience of smart energy infrastructure Challenges and future research directions of smart city applications

Web-Based Services: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2015-11-09 The recent explosion of digital media online networking and e commerce has generated great new opportunities for those Internet savvy individuals who see potential in new technologies and can turn those possibilities into reality It is vital for such forward thinking innovators to stay abreast of all the latest technologies Web Based Services Concepts Methodologies Tools and Applications provides readers with comprehensive coverage of some of the latest tools and technologies in the digital industry The chapters in this multi volume book describe a diverse range of applications and methodologies made possible in a world connected by the

global network providing researchers computer scientists web developers and digital experts with the latest knowledge and developments in Internet technologies     MultiMedia Modeling Ioannis Kompatsiaris,Benoit Huet,Vasileios Mezaris,Cathal Gurrin,Wen-Huang Cheng,Stefanos Vrochidis,2018-12-20 The two volume set LNCS 11295 and 11296 constitutes the thoroughly refereed proceedings of the 25th International Conference on MultiMedia Modeling MMM 2019 held in Thessaloniki Greece in January 2019 Of the 172 submitted full papers 49 were selected for oral presentation and 47 for poster presentation in addition 6 demonstration papers 5 industry papers 6 workshop papers and 6 papers for the Video Browser Showdown 2019 were accepted All papers presented were carefully reviewed and selected from 204 submissions

**Image and Graphics** Yao Zhao,Nick Barnes,Baoquan Chen,Rüdiger Westermann,Xiangwei Kong,Chunyu Lin,2019-11-27 This three volume set LNCS 11901 11902 and 11903 constitutes the refereed conference proceedings of the 10thth International Conference on Image and Graphics ICIG 2019 held in Beijing China in August 2019 The 183 full papers presented were selected from 384 submissions and focus on advances of theory techniques and algorithms as well as innovative technologies of image video and graphics processing and fostering innovation entrepreneurship and networking

Smart Network Inspired Paradigm and Approaches in IoT Applications Mohamed Elhoseny,Amit Kumar Singh,2019-07-20 This book gathers high quality research articles and reviews that reflect the latest advances in the smart network inspired paradigm and address current issues in IoT applications as well as other emerging areas Featuring work from both academic and industry researchers the book provides a concise overview of the current state of the art and highlights some of the most promising and exciting new ideas and techniques Accordingly it offers a valuable resource for senior undergraduate and graduate students researchers policymakers and IT professionals and providers working in areas that call for state of the art networks and IoT applications

Advances in Intelligent Computing and Communication Mihir Narayan Mohanty,Swagatam Das,2025-07-18 This book presents high quality research papers presented at 5th International Conference on Intelligent Computing and Advances in Communication ICAC 2024 organized by Siksha O Anusandhan deemed to be university Bhubaneswar Odisha India in December 2024 This book brings out the new advances and research results in the fields of theoretical experimental and applied signal and image processing soft computing networking and antenna research Moreover it provides a comprehensive and systematic reference on the range of alternative conversion processes and technologies

**Algorithm & SoC Design for Automotive Vision Systems** Jaeseok Kim,Hyunchul Shin,2014-06-29 An emerging trend in the automobile industry is its convergence with information technology IT Indeed it has been estimated that almost 90% of new automobile technologies involve IT in some form Smart driving technologies that improve safety as well as green fuel technologies are quite representative of the convergence between IT and automobiles The smart driving technologies include three key elements sensing of driving environments detection of objects and potential hazards and the generation of driving control signals including warning signals Although radar based systems are primarily used for sensing

the driving environments the camera has gained importance in advanced driver assistance systems ADAS This book covers system on a chip SoC designs including both algorithms and hardware related with image sensing and object detection by using the camera for smart driving systems It introduces a variety of algorithms such as lens correction super resolution image enhancement and object detections from the images captured by low cost vehicle camera This is followed by implementation issues such as SoC architecture hardware accelerator software development environment and reliability techniques for automobile vision systems This book is aimed for the new and practicing engineers in automotive and chip design industries to provide some overall guidelines for the development of automotive vision systems It will also help graduate students understand and get started for the research work in this field

### **Biometrics in a Data Driven World**

Sinijini Mitra, Mikhail Gofman, 2016-12-01 Biometrics in a Data Driven World Trends Technologies and Challenges aims to inform readers about the modern applications of biometrics in the context of a data driven society to familiarize them with the rich history of biometrics and to provide them with a glimpse into the future of biometrics The first section of the book discusses the fundamentals of biometrics and provides an overview of common biometric modalities namely face fingerprints iris and voice It also discusses the history of the field and provides an overview of emerging trends and opportunities The second section of the book introduces readers to a wide range of biometric applications The next part of the book is dedicated to the discussion of case studies of biometric modalities currently used on mobile applications As smartphones and tablet computers are rapidly becoming the dominant consumer computer platforms biometrics based authentication is emerging as an integral part of protecting mobile devices against unauthorized access while enabling new and highly popular applications such as secure online payment authorization The book concludes with a discussion of future trends and opportunities in the field of biometrics which will pave the way for advancing research in the area of biometrics and for the deployment of biometric technologies in real world applications The book is designed for individuals interested in exploring the contemporary applications of biometrics from students to researchers and practitioners working in this field Both undergraduate and graduate students enrolled in college level security courses will also find this book to be an especially useful companion

*Proceedings of 2013 Chinese Intelligent Automation Conference* Zengqi Sun, Zhidong Deng, 2013-06-28 Proceedings of the 2013 Chinese Intelligent Automation Conference presents selected research papers from the CIAC 13 held in Yangzhou China The topics include e g adaptive control fuzzy control neural network based control knowledge based control hybrid intelligent control learning control evolutionary mechanism based control multi sensor integration failure diagnosis and reconfigurable control Engineers and researchers from academia industry and government can gain an inside view of new solutions combining ideas from multiple disciplines in the field of intelligent automation Zengqi Sun and Zhidong Deng are professors at the Department of Computer Science Tsinghua University China



The book delves into Face Detection And Recognition On Mobile Devices. Face Detection And Recognition On Mobile Devices is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Face Detection And Recognition On Mobile Devices, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Face Detection And Recognition On Mobile Devices
    - Chapter 2: Essential Elements of Face Detection And Recognition On Mobile Devices
    - Chapter 3: Face Detection And Recognition On Mobile Devices in Everyday Life
    - Chapter 4: Face Detection And Recognition On Mobile Devices in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, this book will provide an overview of Face Detection And Recognition On Mobile Devices. This chapter will explore what Face Detection And Recognition On Mobile Devices is, why Face Detection And Recognition On Mobile Devices is vital, and how to effectively learn about Face Detection And Recognition On Mobile Devices.
  3. In chapter 2, this book will delve into the foundational concepts of Face Detection And Recognition On Mobile Devices. This chapter will elucidate the essential principles that need to be understood to grasp Face Detection And Recognition On Mobile Devices in its entirety.
  4. In chapter 3, the author will examine the practical applications of Face Detection And Recognition On Mobile Devices in daily life. The third chapter will showcase real-world examples of how Face Detection And Recognition On Mobile Devices can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Face Detection And Recognition On Mobile Devices in specific contexts. The fourth chapter will explore how Face Detection And Recognition On Mobile Devices is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Face Detection And Recognition On Mobile Devices. This chapter will summarize the key points that have been discussed throughout the book.
- This 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 Face Detection And Recognition On Mobile Devices.

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