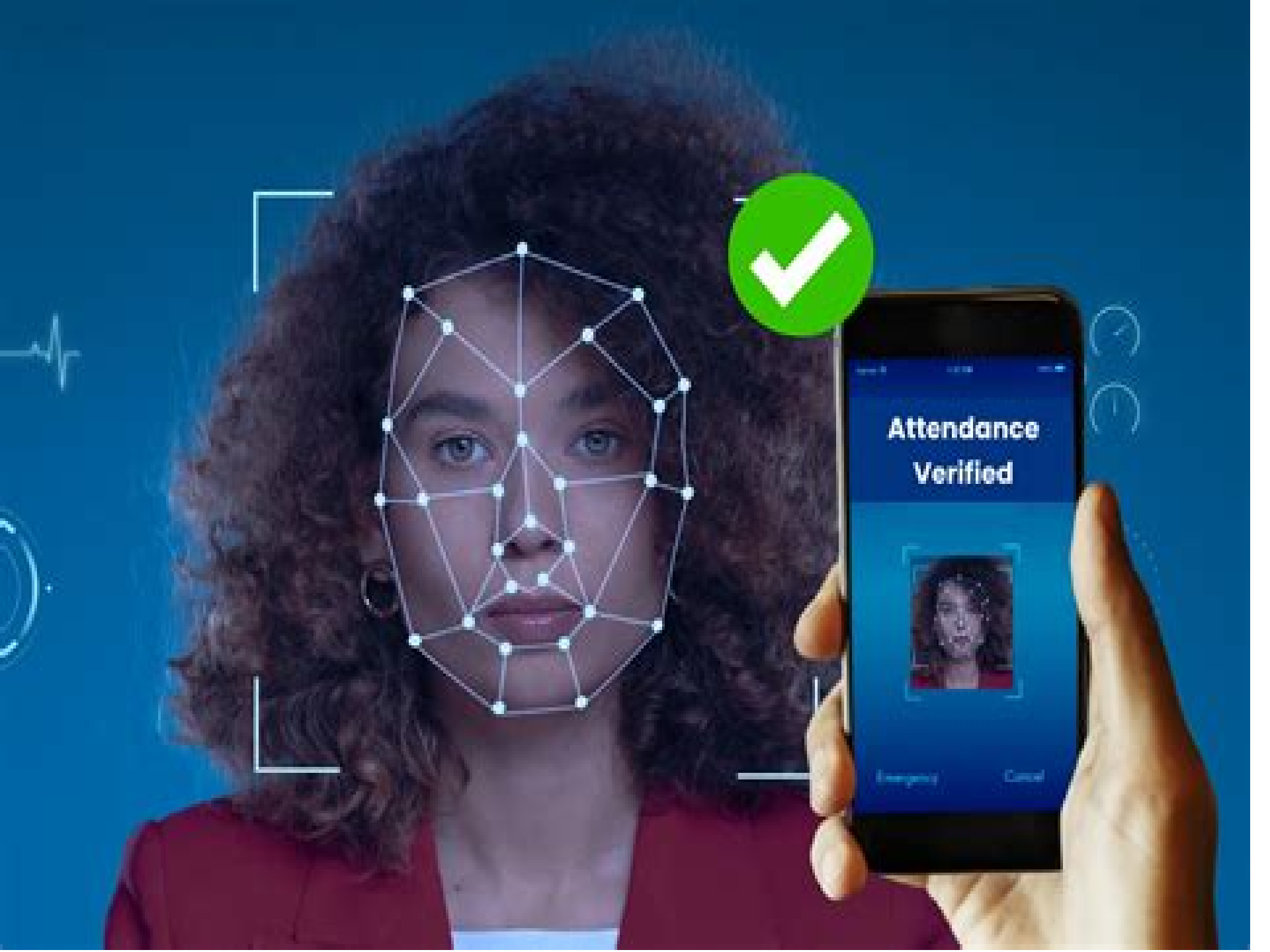




Face Detection And Recognition On Mobile Devices

Daniela Niemeyer



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

Spatially Enhanced Local Binary Patterns for Face Detection and Recognition in Mobile Device Applications Jeaff Zheng Wang, 2013

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 Taher 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 Settlat 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 Settlat 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

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

Inventive Systems and Control V. Suma, Joy Iong-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 **Testing Software and Systems** David Clark,Hector Menendez,Ana Rosa Cavalli,2022-05-09 This book constitutes the refereed proceedings of the 33rd IFIP WG 6 1 International Conference on Testing Software and Systems ICTSS 2021 which was supposed to be held in London UK but was held virtually due to the COVID 19 pandemic The 10 regular papers and 7 short papers presented were carefully reviewed and selected from 36 submissions Additionally the volume includes 6 project reports The papers are divided into the following topical subheadings Finite State Machine based Testing Test Generation and Selection AI based Techniques Use Cases Project Reports **Advances in Face Detection and Facial Image Analysis** Michal Kawulok,Emre Celebi,Bogdan Smolka,2016-04-02 This book presents the state of the art in face detection and analysis It outlines new research directions including in particular psychology based facial dynamics recognition aimed at various applications such as behavior analysis deception detection and diagnosis of various psychological disorders Topics of interest include face and facial landmark detection face recognition facial expression and emotion analysis facial dynamics analysis face classification identification and clustering and gaze direction and head pose estimation as well as applications of face analysis *Information System Design: AI and ML Applications* Vikrant Bhateja,Jinshan Tang,Zdzislaw Polkowski,Milan Simic,V. V. S. S. S. Chakravarthy,2024-12-18 This book presents a collection of high quality peer reviewed research papers from the 8th International Conference on Information System Design and Intelligent Applications ISDIA 2024 held in Dubai UAE from 3 4 January 2024 It covers a wide range of topics in computer science and information technology including data mining and data warehousing high performance computing parallel and distributed computing computational intelligence soft computing big data cloud computing grid computing cognitive computing and information security **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 *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

This 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, from students and scholars to the general public. The 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, the author 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, the author will delve into the foundational concepts of Face Detection And Recognition On Mobile Devices. This chapter will elucidate the essential principles that must 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. This 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. This 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, this book will draw a conclusion about Face Detection And Recognition On Mobile Devices. The final 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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