Face Analysis 12

Harry Wechsler,Jonathon P. Phillips,Vicki Bruce,Francoise Fogelman Soulie,Thomas S. Huang

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.

Face Analysis, Modeling and Recognition Systems Tudor Barbu,2011-10-03 The purpose of this book, entitled Face Analysis, Modeling and Recognition Systems is to provide a concise and comprehensive coverage of artificial face recognition domain across four major areas of interest: biometrics, robotics, image databases and cognitive models. Our book aims to provide the reader with current state-of-the-art in these domains. The book is composed of 12 chapters which are grouped in four sections. The chapters in this book describe numerous novel face analysis techniques and approach many unsolved issues. The authors who contributed to this book work as professors and researchers at important institutions across the globe, and are recognized experts in the scientific fields approached here. The topics in this book cover a wide range of issues related to face analysis and here are offered many solutions to open issues. We anticipate that this book will be of special interest to researchers and academics interested in computer vision, biometrics, image processing, pattern recognition and medical diagnosis.

Heterogeneous Facial Analysis and Synthesis Yi Li,Huaibo Huang,Ran He,Tieniu Tan,2020-06-24 This book presents a comprehensive review of heterogeneous face analysis and synthesis, ranging from the theoretical and technical foundations to various hot and emerging applications, such as cosmetic transfer, cross-spectral hallucination and face rotation. Deep generative models have been at the forefront of research on artificial intelligence in recent years and have enhanced many heterogeneous face analysis tasks. Not only has there been a constantly growing flow of related research papers, but there have also been substantial advances in real-world applications. Bringing these together, this book describes both the fundamentals and applications of heterogeneous face analysis and synthesis. Moreover, it discusses the strengths and weaknesses of related methods and outlines future trends. Offering a rich blend of theory and practice, the book represents a valuable resource for students, researchers and practitioners who need to construct face analysis systems with deep generative networks.

Face Analysis, Modeling and Recognition Systems Tudor Barbu,2011 The purpose of this book, entitled Face Analysis, Modeling and Recognition Systems is to provide a concise and comprehensive coverage of artificial face recognition domain across four major areas of interest: biometrics, robotics, image databases and cognitive models. Our book aims to provide the reader with current state-of-the-art in these domains. The book is composed of 12 chapters which are grouped in four sections. The chapters in this book describe numerous novel face analysis techniques and approach many unsolved issues. The authors who contributed to this book work as professors and researchers at important institutions across the globe, and are recognized experts in the scientific fields approached here. The topics in this book cover a wide range of issues related to face analysis and here are offered many solutions to open issues. We anticipate that this book will be of special interest to researchers and academics interested in computer vision, biometrics, image processing, pattern recognition and medical diagnosis.

Is an Objective Measuring System for Facial Attractiveness Possible? Mounir Bashour,2007-06 here exists a need for the creation of an objective system for measuring facial attractiveness and along with it a detailed mathematical analysis and understanding of facial sexual dimorphism. Both the areas of ophthalmic and facial plastic and reconstructive surgery and the areas of facial attractiveness and recognition research in psychology would greatly benefit from achieving these goals. The objective of this work has been to: develop and test a system for measuring facial attractiveness in an objective manner; and analyze orbital and facial sexual dimorphism. A facial overlay system or mask variously called the phi, archetypal, golden, or golden ratio mask has been claimed to be capable of being adapted to create an objective system for measuring facial attractiveness. The central hypothesis of the thesis is that the phi mask can be used to create an objective measurement system for facial attractiveness. Over a period of seven years, we have created a standardized high resolution photographic facial database of 18-30 year old male and female adults, as well as database of linked facial anthropometric and photogrammetric measurement data. We have also designed a system using the phi mask that attempts to measure facial attractiveness objectively, and tested it against our facial database. Finally, we have made a detailed analysis of the measurement data and previous literature with respect to precisely defining sexual dimorphism around the eyes and face. Results support our central hypothesis in that the phi mask in its current form does yield a measure for objective attractiveness that correlates to the current gold standard measure of attractiveness - 'truth of consensus'. However, while the mask is capable of explaining a major portion of the variance in facial attractiveness, it is not the final complete answer. Strengths, weaknesses and limitations of the approach and the model used are discussed, and ideas and directions for further research to develop a more accurate system are suggested. The analysis of the orbits and the face for sexual dimorphism yielded a great deal of new data and have lead to an understanding of sexual differences that have practical implications for both surgery and further facial research. Applications of the research include: Preoperative aids for planning plastic and reconstructive surgery, cosmetic surgery, and sex-altering surgery; standards for analyzing the eyes for academic study; standards for quantifying the features of the eyes for use in an identification system; aid in application of cosmetics; aid in understanding the psychological impact of eyes on the judgment of attractiveness; creation of a standardized database of digital high-resolution facial photographs and linked anthropometric and demographic database to be made available to the world community of facial researchers; use of the databases by researchers for face recognition research, facial attractiveness research etc.

Clinical Facial Analysis Fabio Meneghini,Paolo Biondi,2012-05-08 This richly illustrated book presents a straightforward non-instrumental method of clinical facial analysis in preparation for aesthetic surgery, orthognathic surgery, and orthodontic treatments. After discussion of various practical aspects of facial examination and photography, analysis of different regions of the face and dentofacial deformities is discussed in a series of detailed chapters. At the end of each of these chapters, multiple-choice checklists are included that will help the reader to perform step-by-step regional analysis. Important features of the book are its multidisciplinary approach and the emphasis placed on the relationship between different parts of the face. This second edition has been thoroughly updated and includes a new chapter on recording and documentation relating specifically to aesthetic facial surgery.

Face Analysis Under Uncontrolled Conditions Romain Belmonte,Benjamin Allaert,2022-09-14 Face analysis is essential for a large number of applications such as human-computer interaction or multimedia (e.g. content indexing and retrieval). Although many approaches are under investigation, performance under uncontrolled conditions is still not satisfactory. The variations that impact facial appearance (e.g. pose, expression, illumination, occlusion, motion blur) make it a difficult problem to solve. This book describes the progress towards this goal, from a core building block – landmark detection – to the higher level of micro and macro expression recognition. Specifically, the book addresses the modeling of temporal information to coincide with the dynamic nature of the face. It also includes a benchmark of recent solutions along with details about the acquisition of a dataset for such tasks.

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.

Computer Models for Facial Beauty Analysis David Zhang,Fangmei Chen,Yong Xu,2016-04-19 This book covers the key advances in computerized facial beauty analysis, with an emphasis on data-driven research and the results of quantitative experiments. It takes a big step toward practical facial beauty analysis, proposes more reliable and stable facial features for beauty analysis and designs new models, methods, algorithms and schemes while implementing a facial beauty analysis and beautification system. This book also tests some previous putative rules and models for facial beauty analysis by using computationally efficient mathematical models and algorithms, especially large scale database-based and repeatable experiments.The first section of this book provides an overview of facial beauty analysis. The base of facial beauty analysis, i.e., facial beauty features, is presented in part two. Part three describes hypotheses on facial beauty, while part four defines data-driven facial beauty analysis models. This book concludes with the authors explaining how to implement their new facial beauty analysis system.This book is designed for researchers, professionals and post graduate students working in the field of facial beauty analysis, computer vision, human-machine interface, pattern recognition and biometrics. Those involved in interdisciplinary fields with also find the contents useful. The ideas, means and conclusions for beauty analysis are valuable for researchers and the system design and implementation can be used as models for practitioners and engineers.

Automated Face Analysis: Emerging Technologies and Research Kim, Daijin,Sung, Jaewon,2009-03-31 This book provides related theoretical background to understand the overall configuration and challenging problem of automated face analysis systems-- Provided by publisher.

Advances in Face Image Analysis: Techniques and Technologies Zhang, Yu-Jin,2010-07-31 More than 30 leading experts from around the world provide comprehensive coverage of various branches of face image analysis, making this text a valuable asset for students, researchers, and practitioners engaged in the study, research, and development of face image analysis techniques.

Face Image Analysis by Unsupervised Learning Marian Stewart Bartlett,2012-12-06 Face Image Analysis by Unsupervised Learning explores adaptive approaches to image analysis. It draws upon principles of unsupervised learning and information theory to adapt processing to the immediate task environment. In contrast to more traditional approaches to image analysis in which relevant structure is determined in advance and extracted using hand-engineered techniques, Face Image Analysis by Unsupervised Learning explores methods that have roots in biological vision and/or learn about the image structure directly from the image ensemble. Particular attention is paid to unsupervised learning techniques for encoding the statistical dependencies in the image ensemble. The first part of this volume reviews unsupervised learning, information theory, independent component analysis, and their relation to biological vision. Next, a face image representation using independent component analysis (ICA) is developed, which is an unsupervised learning technique based on optimal information transfer between neurons. The ICA representation is compared to a number of other face representations including eigenfaces and Gabor wavelets on tasks of identity recognition and expression analysis. Finally, methods for learning features that are robust to changes in viewpoint and lighting are presented. These studies provide evidence that encoding input dependencies through unsupervised learning is an effective strategy for face recognition. Face Image Analysis by Unsupervised Learning is suitable as a secondary text for a graduate-level course, and as a reference for researchers and practitioners in industry.

Face Reading Chi An Kuei,2000-09-26 How often have you taken one look at someone and 'known' that they were not to be trusted? Or conversely, instantly been sure that some new acquaintance was someone who was going to be your friend? You 'know' because you can instinctively see their character in their faces. The art of reading faces has been practiced in China for thousands of years. Now, with the help of this step-by-step guide, anyone can learn how to interpret different facial characteristics and acquire and instant knowledge of a person's character, feelings, hidden desires, state of health, and mood. Everything is written in the face. High cheekbones, a pointed chine, flaring eyebrows or a turned-up nose all have specific meanings. Once you have learned how to interpret them you will gain greater self-knowledge and a deeper understanding of your friends, colleagues and partners. Your new insights will enable you to form more successful relationships and will give you the advantage in business dealings and interviews. You will know at once whether a person is trustworthy or has bad intentions, and your first impressions will be supported by the clear evidence in the face confronting you. Clear and practical, Face Reading includes 180 illustrations showing you all the facial features with detailed explanations of their meaning. Reading faces is entertaining and fun, but it is no mere party game; it will change your whole perception of the people around you as well as yourself.

3D Face Modeling, Analysis and Recognition Mohamed Daoudi,Anuj Srivastava,Remco Veltkamp,2013-06-11 3D Face Modeling, Analysis and Recognition presentsmethodologies for analyzing shapes of facial surfaces, developscomputational tools for analyzing 3D face data, and illustratesthem using state-of-the-art applications. The methodologies chosenare based on efficient representations, metrics, comparisons, andclassifications of features that are especially relevant in thecontext of 3D measurements of human faces. These frameworks have along-term utility in face analysis, taking into account theanticipated improvements in data collection, data storage,processing speeds, and application scenarios expected as thediscipline develops further. The book covers face acquisition through 3D scanners and 3D facepre-processing, before examining the three main approaches for 3Dfacial surface analysis and recognition: facial curves; facialsurface features; and 3D morphable models. Whilst the focus ofthese chapters is fundamentals and methodologies, the algorithmsprovided are tested on facial biometric data, thereby continuallyshowing how the methods can be applied. Key features: • Explores the underlying mathematics and will apply thesemathematical techniques to 3D face analysis and recognition • Provides coverage of a wide range of applications includingbiometrics, forensic applications, facial expression analysis, andmodel fitting to 2D images • Contains numerous exercises and algorithms throughout thebook

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.

Asian Face Reading Boye Lafayette De Mente,2011-12-20 Imagine how much you could learn if you knew how to evaluate a person's character, health, fortune, social status, sexual charisma, and life expectancy from a careful reading of his or her face. Face reading, a practice as old as man, is a universal art that we all use every day—with varying degrees of skill. We all know and respond to facial expressions that indicate fear, anger, merriment, and other moods, and we know from experience that facial characteristics, such as unusually large eyes or big noses, have an important influence on our lives. In China and Japan, face reading is a respectable analytical tool used to make business decisions, arrange marriages, and evaluate partnerships and friendships. Asian Face Reading offers a quick, practical, easy-to-understand and easy-to-apply introduction to the basic principles of face reading. The book is fully illustrated with dozens of examples readers can use to learn this increasingly popular practice—and to analyze their friends, colleagues, and loved ones.

Cognitive and Computational Aspects of Face Recognition Tim Valentine,2017-04-07 How can computers recognize faces? Why are caricatures of famous faces so easily recognized? Originally published in 1995, much of the previous research on face recognition had been phenomena driven. Recent empirical work together with the application of computational, mathematical and statistical techniques have provided new ways of conceptualizing the information available in faces. These advances have led researchers to suggest that many phenomena can be explained by the structure of the information available in the population(s) of faces. This broad approach has drawn together a number of apparently disparate phenomena with a common theoretical basis, including cross-race recognition; the distinctiveness of faces; the production and recognition of caricatures; and the determinants of facial attractiveness. This title provides a state of the art review of the field at the time in which the authors use a wide variety of approaches. What is common to all is that the authors base the accounts of the phenomena they study or their model of face recognition on the statistics of the information available in the population of faces. On publication this title was a comprehensive, up-to-date review of an important area of research in face recognition written by active researchers. It includes contributions from mathematics, computer science and neural network theory as well as psychology. It is aimed at research workers and postgraduate students and will be of interest to cognitive psychologists and computer scientists interested in face recognition. It will also be of interest to those working on neural network models of visual recognition, perceptual development, expertise in visual cognition as well as facial attractiveness and caricature.

Clinical Facial Analysis Fabio Meneghini,Paolo Biondi,2012-04-12 This richly illustrated book presents a straightforward non-instrumental method of clinical facial analysis in preparation for aesthetic surgery, orthognathic surgery, and orthodontic treatments. After discussion of various practical aspects of facial examination and photography, analysis of different regions of the face and dentofacial deformities is discussed in a series of detailed chapters. At the end of each of these chapters, multiple-choice checklists are included that will help the reader to perform step-by-step regional analysis. Important features of the book are its multidisciplinary approach and the emphasis placed on the relationship between different parts of the face. This second edition has been thoroughly updated and includes a new chapter on recording and documentation relating specifically to aesthetic facial surgery.

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.

Face Analysis Under Near Infrared Illumination Shuyan Zhao,2008

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