

Handbook Of Research On Face Processing

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Face and Facial Expression Recognition from Real World Videos
Face Processing: Advanced Modeling and Methods
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Computational, Geometric, and Process Perspectives on Facial Cognition
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Processing Images of Faces
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the high degree of scientific interest in face processing is readily understandable since people's faces provide such a wealth of social information moreover investigations have produced evidence of highly precocious face processing abilities in infants and of neural mechanisms in adults that seem to be differentially involved in face perception such findings demonstrate that as one might expect the psychological importance of the face has clear biological underpinnings there are also urgent practical reasons for wanting to understand face processing the most extensively investigated of these involve forensic issues other applications include the development of automated recognition systems for security and other purposes and understanding and rehabilitating disorders and impairments linked to brain injuries and psychiatric conditions current studies of face processing are grouped in the volume into eleven topic areas for each area the editors approached an acknowledged authority and commissioned a review chapter summarising the findings that have been made these chapters were then circulated to other experts who were asked to write brief commentaries that developed theoretical or empirical points of importance to each area in

this way a balanced coverage of each topic is achieved the book begins with a section examining the evidence suggesting that there may be something special about face processing this is followed by consideration of the face as a visual pattern then there are four sections dealing with major uses of facial information followed by sections discussing the development of face processing abilities and the neural mechanisms involved the last three sections of the book deal with topics for which there are important practical applications for the studies reported

this book on face perception is one of the most researched areas in infancy and early childhood because of the enormous information that the face conveys to its viewer both in terms of the recognition of individuals and in the expressive information that faces convey it remains a complex area but a number of theoretical issues have emerged which motivate much of the current research this book describes many of these issues and also presents some empirical research findings to illustrate the ways in which researchers carry out their investigations

face processing seeks to answer questions such as how we recognise familiar faces and which factors determine facial attractiveness drawing on a wealth of studies and research it is an essential companion for undergraduates studying face processing as part of a psychology degree

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face processing is now a mainstream multi faceted and global research field in psychology and it is growing exponentially the volume of emerging research necessitates continuous efforts to update our overall understanding of current theory this book brings together contributions from face processing researchers around the world to provide up to date reviews of topics of great current interest the book is partitioned to give insight into face processing systems such as those employed to verify a persons identity in applied security settings the state of the art systems utilised for the construction of criminal facial composites in police investigations and the cognitive systems for the recognition of familiar faces and bodies disorders focusing on people with extremely high and extremely poor face processing ability as well as face processing in autism spectrum disorder and cultural differences including the development of perceptual and social race biases the impact of cultural headdress traditions and reading directions on face perception cultural similarities and differences in the processing of facial expressions as well as a broader look at ethnicity gender and age biases in face processing the outcome is a book that provides diverse interesting useful and thought provoking chapters covering a range of topics of current theoretical and applied importance authored by a combination of internationally renowned and exciting upcoming researchers

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

just how and why we find some faces memorable but others impossible to recognize is a complex and important question with many practical applications this edited collection brings together a multi disciplinary team of researchers to compare and contrast their findings from psychology computer science mathematics and neural network research to present a state of the art description of the latest and best of their results in this field with an international line up of key researches this book is an resource for all researchers and advanced students of this topic in each discipline

this book constitutes the thoroughly refereed conference proceedings of the international workshop on face and facial expression recognition from real world videos in conjunction with the 22nd international conference on pattern recognition held in stockholm sweden in august 2014 the 11 revised full papers were carefully reviewed and selected from numerous submissions and cover topics such as face recognition face alignment facial expression recognition and facial images

major strides have been made in face processing in the last ten years due to the fast growing need for security in various locations around the globe a human eye can discern the details of a specific face with relative ease it is this level of detail that researchers are striving to create with ever evolving computer technologies that will become our perfect mechanical eyes the difficulty that confronts researchers stems from turning a 3d object into a 2d image that subject is covered in depth from several different perspectives in this volume face processing advanced modeling and methods begins with a comprehensive introductory chapter for those who are new to the field a compendium of articles follows that is divided into three sections the first covers basic aspects of face processing from human to computer the second deals with face modeling from computational and physiological points of view the third tackles the advanced methods which include illumination pose expression and more editors zhao and chellappa have compiled a concise and necessary text for industrial research scientists students and professionals working in the area of image and signal processing contributions from over 35 leading experts in face detection recognition and image processing over 150 informative images with 16 images in full color illustrate and offer insight into the most up to date advanced face processing methods and techniques extensive detail makes this a need to own book for all involved with image and signal processing

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

within the last three decades interest in the psychological experience of human faces has drawn together cognitive science researchers from diverse backgrounds computer scientists talk to neural scientists who draw on the work of mathematicians who explicitly influence those conducting behavioral experiments the chapters in this volume illustrate the breadth of the research on facial perception and memory with the emphasis being on mathematical and computational approaches in pulling together these chapters the editors sought to do much more than illustrate breadth they endeavored as well to illustrate the synergies and tensions that inevitably result from adopting a broad view one consistent with the emerging discipline of cognitive science

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

each of us is able to recognise the faces of many hundreds if not thousands of people known to us we recognise faces despite seeing them in different views and with changing expressions from these varying patterns we somehow extract the invariant characteristics of an individual's face and usually remember why a face seems familiar recalling where we know the person from and what they are called in this book originally published in 1988 the author describes the progress which has been made by psychologists towards understanding these perceptual and cognitive processes and points to theoretical directions which may prove important in the future though emphasising theory the book also addresses practical problems of eyewitness testimony and discusses the relationship between recognising faces and other aspects of face processing such as perceiving expressions and lipreading the book was aimed primarily at a research

audience but would also interest advanced undergraduate students in vision and cognition

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

the human face poses a challenge to engineers computer scientists and psychologists alike this book integrates different contributions by combining detailed review articles with general overviews of the relationship between different kinds of research on faces and contemporary problems in vision and cognition theoretical developments in this area are increasingly dependent on computer technology both because image processing techniques allow us to display and manipulate faces for experiments in ways that were not feasible with old photographic technology and because theoretical ideas can be expressed and tested more rigorously using computer simulation the psychological contributions in this volume illustrate current theoretical developments that are heavily dependent on image processing and computer simulation as technology improves so it becomes increasingly feasible to automate many aspects of face processing normally taken for granted to develop new technological aids therefore this volume also includes examples of computing developments for forensic purposes for the simulation of plastic surgery and for automatic animation for applications in telecommunications and creative arts

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