



COMPUTER-AIDED FORENSIC FACIAL COMPARISON

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Computer Aided Forensic Facial Comparison Crc
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Caroline Wilkinson, Christopher Rynn



Computer Aided Forensic Facial Comparison Crc Press2010 Hardcover:

Computer-Aided Forensic Facial Comparison Martin Paul Evison, Richard W. Vorder Bruegge, 2010-03-26 Countless facial images are generated everyday through digital and cell phone cameras surveillance video systems webcams and traditional film and broadcast video As a result law enforcement and intelligence agencies have numerous opportunities to acquire and analyze images that depict persons of interest Computer Aided Forensic Facial Comparison is a comprehensive exploration of the scientific technical and statistical challenges facing researchers investigating courtroom identification from facial images Supported by considerable background material research data and prototypic statistical and applications software this volume brings together contributions from anthropologists computer scientists forensic scientists and statisticians Topics discussed include Face database collection in 3D Error and distinguishing power associated with craniofacial landmarks Statistical analysis of face shape variation Comparison of instrumentation Court admissibility issues Missing data Computer applications development Based on the quantification and analysis of more than 3000 facial images this seminal work lays the foundation for future forensic facial comparison computer applications development and research in face shape variation and analysis Using experimental and real case data it demonstrates the influence of illumination image resolution perspective and pose angle on landmark visibility Downloadable resources are included which contain the raw 3D landmark datasets for 3000 faces additional datasets used in 2D analysis and computer programs and spreadsheets used in analysis and in the development of prototypic applications software *Forensic Face Matching* Markus

Bindemann, 2020-11-20 Humans are highly tuned to faces because our faces indicate who we are they provide the primary visual means by which people can be identified and for distinguishing one person from another In everyday life we identify faces regularly and it seems that we can do so with great ease Consequently one might assume this to be a straightforward and accurate task We are certainly very good at recognizing the faces of people we know such as those belonging to colleagues friends and family Contrary to the identification of familiar people however we are poor at identifying the faces of unfamiliar people whom we have never met before despite the fact that important tasks depend on this Passport control at airports for example depends on the identification of people who are not known to the observer by comparing their faces to photo identity documents And police investigations frequently require the comparison of footage of a target person with the faces of suspects to make an identification In these applied settings these identification tasks are referred to as facial comparison and are utilized widely In psychology a similar identification task is known as forensic or unfamiliar face matching because it requires the comparison of faces to decide whether their identities match or mismatch This task has been the subject of intense study in recent years This book aims to provide an overview of what is currently known about facial comparison and face matching by bringing together the knowledge of experts from cognitive and forensic psychology law border security and the police Book jacket **Computer-Graphic Facial Reconstruction** John G. Clement, Murray K.

Marks,2005-07-02 This unique book looks at a cost efficient fast and accurate means of facial reconstruction from segmented decomposed or skeletal remains using computer graphic and computational means Computer Graphic Facial Reconstruction is designed as a valuable resource for those scientists designing new research projects and protocols as well as a practical handbook of methods and techniques for medico legal practitioners who actually identify the faceless victims of crime It looks at a variety of approaches artificial intelligence using neural networks case based reasoning Bayesian belief systems along with a variety of imaging methods radiological CT MRI and the use of imaging devices The methods described in this book complement or may even replace the less reliable more traditional means of securing identification by presumptive means i e recognition of clothing personal effects and clay reconstruction Covers cutting edge technologies in the context of historical forensic reconstruction methods Features stellar authors from around the globe Bridges the areas of computer graphics animation and forensic anthropology **Forensic Facial Identification** Tim Valentine,Josh P

Davis,2015-04-08 Forensic Facial Identification discusses the latest scientific and technical advancements in the field and their implications for practice in psychology criminology and law Provides an up to date set of best practices for forensic facial identification Reviews current procedures for different facial identification methods and their reliability Covers eyewitness testimony line ups facial composites anthropological face reconstructions CCTV images and computerized automatic face recognition systems Incorporates case studies which put the latest research and technology in the proper legal context

Craniofacial Identification Caroline Wilkinson,Christopher Rynn,2012-05-03 The promotion of CCTV surveillance and identity cards along with ever heightened security at airports immigration control and institutional access has seen a dramatic increase in the use of automated and manual recognition In addition several recent disasters have highlighted the problems and challenges associated with current disaster victim identification Discussing the latest advances and key research into identification from the face and skull this book draws together a wide range of elements relating to craniofacial analysis and identification It examines all aspects of facial identification including the determination of facial appearance from the skull comparison of the skull with the face and the verification of living facial images With sections covering the identification of the dead and of the living it provides a valuable review of the current state of play along with the latest research advances in this constantly evolving field *Forensic Facial Identification by Image Comparison* Kenneth A. Linde,2001

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