

BIOMETRICS

Personal Identification in Networked Society

edited by
Anil Jain
Ruud Bolle
Sharath Pankanti



 Springer

Biometrics Personal Identification In Networked Society

Anil K. Jain, Patrick Flynn, Arun A. Ross



Biometrics Personal Identification In Networked Society:

Biometrics Anil K. Jain,Ruud Bolle,Sharath Pankanti,2006-04-18 Biometrics Personal Identification in Networked Society is a comprehensive and accessible source of state of the art information on all existing and emerging biometrics the science of automatically identifying individuals based on their physiological or behavior characteristics In particular the book covers General principles and ideas of designing biometric based systems and their underlying tradeoffs Identification of important issues in the evaluation of biometrics based systems Integration of biometric cues and the integration of biometrics with other existing technologies Assessment of the capabilities and limitations of different biometrics The comprehensive examination of biometric methods in commercial use and in research development Exploration of some of the numerous privacy and security implications of biometrics Also included are chapters on face and eye identification speaker recognition networking and other timely technology related issues All chapters are written by leading internationally recognized experts from academia and industry Biometrics Personal Identification in Networked Society is an invaluable work for scientists engineers application developers systems integrators and others working in biometrics

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included are chapters on face and eye identification speaker recognition networking and other timely technology related issues All chapters are written by leading internationally recognized experts from academia and industry Biometrics Personal Identification in Networked Society is an invaluable work for scientists engineers application developers systems integrators and others working in biometrics **Handbook of Biometrics** Anil K. Jain,Patrick Flynn,Arun A. Ross,2007-10-23

Biometrics is a rapidly evolving field with applications ranging from accessing one s computer to gaining entry into a country The deployment of large scale biometric systems in both commercial and government applications has increased public awareness of this technology Recent years have seen significant growth in biometric research resulting in the development of innovative sensors new algorithms enhanced test methodologies and novel applications This book addresses this void by inviting some of the prominent researchers in Biometrics to contribute chapters describing the fundamentals as well as the latest innovations in their respective areas of expertise **Biometric Authentication** David Zhang,Anil K. Jain,2004-07

This book constitutes the refereed proceedings of the First International Conference on Biometric Authentication ICBA 2004 held in Hong Kong China in July 2004 The 104 revised full papers presented were carefully reviewed and selected from 157 submissions also included are summaries of 3 biometric competitions on fingerprint verification face authentication and signature verification The papers are organized in topical sections on face fingerprint iris signature speech biometric fusion and risk analysis and other biometric issues *Applied Graph Theory in Computer Vision and Pattern Recognition* Abraham

Kandel,Horst Bunke,2007-03-12 This book presents novel graph theoretic methods for complex computer vision and pattern recognition tasks It presents the application of graph theory to low level processing of digital images presents graph theoretic learning algorithms for high level computer vision and pattern recognition applications and provides detailed descriptions of several applications of graph based methods to real world pattern recognition tasks **Imaging for**

Forensics and Security Ahmed Bouridane,2009-07-14 Imaging for Forensics and Security From Theory to Practice provides a detailed analysis of new imaging and pattern recognition techniques for the understanding and deployment of biometrics and forensic techniques as practical solutions to increase security It contains a collection of the recent advances in the technology ranging from theory design and implementation to performance evaluation of biometric and forensic systems This book also contains new methods such as the multiscale approach directional filter bank and wavelet maxima for the development of practical solutions to biometric problems The book introduces a new forensic system based on shoeprint imagery with advanced techniques for use in forensics applications It also presents the concept of protecting the originality of biometric images stored in databases against intentional and unintentional attacks and fraud detection data in order to further increase the security **Guide to Biometrics** Ruud M. Bolle,Jonathan H. Connell,Sharath Pankanti,Nalini K.

Ratha,Andrew W. Senior,2013-06-29 Starting with fingerprints more than a hundred years ago there has been ongoing research in biometrics Within the last forty years face and speaker recognition have emerged as research topics However as

recently as a decade ago biometrics itself did not exist as an independent field Each of the biometric related topics grew out of different disciplines For example the study of fingerprints came from forensics and pattern recognition speaker recognition evolved from signal processing the beginnings of face recognition were in computer vision and privacy concerns arose from the public policy arena One of the challenges of any new field is to state what the core ideas are that define the field in order to provide a research agenda for the field and identify key research problems Biometrics has been grappling with this challenge since the late 1990s With the maturation of biometrics the separate biometrics areas are coalescing into the new discipline of biometrics The establishment of biometrics as a recognized field of inquiry allows the research community to identify problems that are common to biometrics in general It is this identification of common problems that will define biometrics as a field and allow for broad advancement

Behavioral Biometrics for Human Identification: Intelligent Applications Wang, Liang, Geng, Xin, 2009-08-31 This edited book provides researchers and practitioners a comprehensive understanding of the state of the art of behavioral biometrics techniques potential applications successful practice and available resources Provided by publisher

Computer-Aided Intelligent Recognition Techniques and Applications Dr. Muhammad Sarfraz, 2005-11-01 Intelligent recognition methods have recently proven to be indispensable in a variety of modern industries including computer vision robotics medical imaging visualization and the media Furthermore they play a critical role in the traditional fields such as character recognition natural language processing and personal identification This cutting edge book draws together the latest findings of industry experts and researchers from around the globe It is a timely guide for all those who require comprehensive state of the art advice on the present status and future potential of intelligent recognition technology Computer Aided Intelligent Recognition Techniques and Applications Provides the user community with systems and tools for application in a very wide range of areas including IT education security banking police postal services manufacturing mining medicine multimedia entertainment communications data visualization knowledge extraction pattern classification and virtual reality Disseminates information in a plethora of disciplines for example pattern recognition AI image processing computer vision and graphics neural networks cryptography fuzzy logic databases evolutionary algorithms shape and numerical analysis Illustrates all theory with real world examples and case studies This valuable resource is essential reading for computer scientists engineers and consultants requiring up to date comprehensive guidance on the latest developments in computer aided intelligent recognition techniques and applications Its detailed practical approach will be of interest to senior undergraduate and graduate students as well as researchers and industry experts in the field of intelligent recognition

Whispering the Techniques of Language: An Emotional Quest through **Biometrics Personal Identification In Networked Society**

In a digitally-driven world where displays reign supreme and quick transmission drowns out the subtleties of language, the profound techniques and emotional nuances hidden within phrases often move unheard. Yet, situated within the pages of **Biometrics Personal Identification In Networked Society** a interesting fictional value pulsating with natural thoughts, lies an extraordinary journey waiting to be undertaken. Composed by a talented wordsmith, that wonderful opus encourages visitors on an introspective journey, gently unraveling the veiled truths and profound affect resonating within the material of each word. Within the emotional depths of the moving review, we will embark upon a honest exploration of the book is core themes, dissect its fascinating writing type, and fail to the powerful resonance it evokes deep within the recesses of readers hearts.

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