



Handbook of Remote Biometrics: for Surveillance and Security (Advances in Computer Vision and Pattern Recognition)

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The development of technologies for the identification of individuals has driven the interest and curiosity of many people. Spearheaded and inspired by the Bertillon coding system for the classification of humans based on physical measurements, scientists and engineers have been trying to invent new devices and classification systems to capture the human identity from its body measurements. One of the main limitations of the precursors of today's biometrics, which is still present in the vast majority of the existing biometric systems, has been the need to keep the device in close contact with the subject to capture the biometric measurements. This clearly limits the applicability and convenience of biometric systems. This book presents an important step in addressing this limitation by describing a number of methodologies to capture meaningful biometric information from a distance. Most materials covered in this book have been presented at the International Summer School on Biometrics which is held every year in Alghero, Italy and which has become a flagship activity of the IAPR Technical Committee on Biometrics (IAPR TC4). The last four chapters of the book are derived from some of the best presentations by the participating students of the school. The educational value of this book is also highlighted by the number of proposed exercises and questions which will help the reader to better understand the proposed topics.

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Editorial Review

From the Back Cover

The study of biometrics aims to understand the uniqueness of human physical characteristics, and to develop biometric identification technologies. Remote biometrics address the most challenging problem of biometrics, that of identifying individuals in a watch list *from a distance*.

From a computing point of view, this is a complex task requiring four issues to be solved. First, the system must be able to recognize individual subjects with minimum errors. Second, this must be able to operate at a distance of up to 50 meters. Third, it must be able to deal with subjects in motion. Finally, the system must function when the subjects are unaware of being observed. Other issues include allowing countermeasures to be made against attacks or providing intelligence for security intervention. No currently commercial system is able to satisfy all of these requirements, and none are error-free.

This comprehensive and innovative handbook covers several aspects of biometrics from the perspective of recognizing individuals at a distance, in motion, and under a surveillance scenario. The book presents both a broad coverage and an in-depth investigation into the most advanced biometric technologies for recognition at a distance, with applications in areas such as border control, surveillance in critical infrastructures, and ambient intelligence.

Features:

- Starts with a thorough introductory chapter
- Provides topics from a range of different perspectives offered by an international collection of leading researchers in the field
- Contains selected expanded contributions from the 5th IAPR International Summer School for Advanced Studies on Biometrics for Secure Authentication
- Investigates issues of iris recognition, gait recognition, and touchless fingerprint recognition, as well as various aspects of face recognition
- Discusses multibiometric systems, and machine learning techniques
- Examines biometrics ethics and policy
- Presents international standards in biometrics, including those under preparation

This state-of-the-art volume is designed to help form and inform professionals, young researchers, and graduate students in advanced biometric technologies. This indispensable reference draws from the expertise of internationally regarded experts in the field, as well as from the finest presentations of the 5th International

Summer School on Biometrics.

Dr. Massimo Tistarelli is Professor of Computer Science at the Department of Architecture and Planning at the University of Sassari, Italy.

Dr. Stan Z. Li is Professor of the Chinese Academy of Sciences and the Director of the Center for Biometrics and Security Research, at the Institute of Automation, Beijing, China.

Dr. Rama Chellappa is the Minta Martin Professor of Engineering and Director of the Center for Automation Research at the University of Maryland, USA.

Key topics:

- Iris Recognition at a Distance
- Gait Recognition
- Touchless Fingerprint Recognition
- Face Recognition at a Distance
- Multibiometric Systems
- Biometrics Ethics and Policy

Users Review

From reader reviews:

Stuart Ross:

Book will be written, printed, or highlighted for everything. You can recognize everything you want by a reserve. Book has a different type. As we know that book is important point to bring us around the world. Adjacent to that you can your reading proficiency was fluently. A reserve Handbook of Remote Biometrics: for Surveillance and Security (Advances in Computer Vision and Pattern Recognition) will make you to be smarter. You can feel a lot more confidence if you can know about anything. But some of you think which open or reading some sort of book make you bored. It is not make you fun. Why they might be thought like that? Have you trying to find best book or ideal book with you?

Anthony Tipton:

The book with title Handbook of Remote Biometrics: for Surveillance and Security (Advances in Computer Vision and Pattern Recognition) includes a lot of information that you can find out it. You can get a lot of help after read this book. This kind of book exist new know-how the information that exist in this reserve represented the condition of the world now. That is important to you to be aware of how the improvement

of the world. This book will bring you in new era of the global growth. You can read the e-book in your smart phone, so you can read it anywhere you want.

Catherine Riddle:

In this time globalization it is important to someone to find information. The information will make a professional understand the condition of the world. The health of the world makes the information better to share. You can find a lot of recommendations to get information example: internet, classifieds, book, and soon. You can observe that now, a lot of publisher print many kinds of book. The book that recommended to your account is *Handbook of Remote Biometrics: for Surveillance and Security (Advances in Computer Vision and Pattern Recognition)* this reserve consist a lot of the information in the condition of this world now. This kind of book was represented how can the world has grown up. The words styles that writer value to explain it is easy to understand. Typically the writer made some exploration when he makes this book. Here is why this book acceptable all of you.

Jose Crawford:

With this era which is the greater particular person or who has ability in doing something more are more special than other. Do you want to become among it? It is just simple method to have that. What you must do is just spending your time little but quite enough to possess a look at some books. One of many books in the top listing in your reading list will be *Handbook of Remote Biometrics: for Surveillance and Security (Advances in Computer Vision and Pattern Recognition)*. This book that is certainly qualified as *The Hungry Mountains* can get you closer in turning into precious person. By looking way up and review this guide you can get many advantages.

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