3D Biometrics: Systems and Applications

David Zhang, Guangming Lu

3D Biometrics: Systems and Applications

David Zhang, Guangming Lu

3D Biometrics: Systems and Applications David Zhang, Guangming Lu
Automatic personal authentication using biometric information is becoming more essential in applications of public security, access control, forensics, banking, etc. Many kinds of biometric authentication techniques have been developed based on different biometric characteristics. However, most of the physical biometric recognition techniques are based on two dimensional (2D) images, despite the fact that human characteristics are three dimensional (3D) surfaces. Recently, 3D techniques have been applied to biometric applications such as 3D face, 3D palmprint, 3D fingerprint, and 3D ear recognition. This book introduces four typical 3D imaging methods, and presents some case studies in the field of 3D biometrics. This book also includes many efficient 3D feature extraction, matching, and fusion algorithms. These 3D imaging methods and their applications are given as follows: - Single view imaging with line structured-light: 3D ear identification - Single view imaging with multi-line structured-light: 3D palmprint authentication - Single view imaging using only 3D camera: 3D hand verification - Multi-view imaging: 3D fingerprint recognition *3D Biometrics: Systems and Applications* is a comprehensive introduction to both theoretical issues and practical implementation in 3D biometric authentication. It will serve as a textbook or as a useful reference for graduate students and researchers in the fields of computer science, electrical engineering, systems science, and information technology. Researchers and practitioners in industry and R&D laboratories working on security system design, biometrics, immigration, law enforcement, control, and pattern recognition will also find much of interest in this book.

[**Download** 3D Biometrics: Systems and Applications ...pdf](#)

[**Read Online** 3D Biometrics: Systems and Applications ...pdf](#)

Download and Read Free Online 3D Biometrics: Systems and Applications David Zhang, Guangming Lu

---

From reader reviews:

Byron Angle:

Why don't make it to become your habit? Right now, try to prepare your time to do the important take action, like looking for your favorite publication and reading a publication. Beside you can solve your short lived problem; you can add your knowledge by the guide entitled 3D Biometrics: Systems and Applications. Try to face the book 3D Biometrics: Systems and Applications as your good friend. It means that it can to get your friend when you sense alone and beside associated with course make you smarter than before. Yeah, it is very fortuned for yourself. The book makes you more confidence because you can know everything by the book. So , let me make new experience and knowledge with this book.

Rosa Goldschmidt:

Nowadays reading books become more than want or need but also be a life style. This reading practice give you lot of advantages. Advantages you got of course the knowledge even the information inside the book that will improve your knowledge and information. The details you get based on what kind of book you read, if you want have more knowledge just go with education books but if you want truly feel happy read one having theme for entertaining such as comic or novel. Often the 3D Biometrics: Systems and Applications is kind of reserve which is giving the reader unstable experience.

Dale Fain:

Playing with family in the park, coming to see the coastal world or hanging out with friends is thing that usually you might have done when you have spare time, in that case why you don't try thing that really opposite from that. One particular activity that make you not sense tired but still relaxing, trilling like on roller coaster you already been ride on and with addition of information. Even you love 3D Biometrics: Systems and Applications, you could enjoy both. It is fine combination right, you still wish to miss it? What kind of hangout type is it? Oh occur its mind hangout men. What? Still don't buy it, oh come on its called reading friends.

James Anderson:

You are able to spend your free time you just read this book this publication. This 3D Biometrics: Systems and Applications is simple to develop you can read it in the park, in the beach, train and soon. If you did not have got much space to bring the printed book, you can buy the actual e-book. It is make you quicker to read it. You can save the book in your smart phone. Thus there are a lot of benefits that you will get when you buy this book.

Download and Read Online 3D Biometrics: Systems and Applications David Zhang, Guangming Lu #19DZ0GJHWVM

Read 3D Biometrics: Systems and Applications by David Zhang, Guangming Lu for online ebook

3D Biometrics: Systems and Applications by David Zhang, Guangming Lu Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read 3D Biometrics: Systems and Applications by David Zhang, Guangming Lu books to read online.

Online 3D Biometrics: Systems and Applications by David Zhang, Guangming Lu ebook PDF download

3D Biometrics: Systems and Applications by David Zhang, Guangming Lu Doc

3D Biometrics: Systems and Applications by David Zhang, Guangming Lu Mobipocket

3D Biometrics: Systems and Applications by David Zhang, Guangming Lu EPub