Introduction to Biometrics

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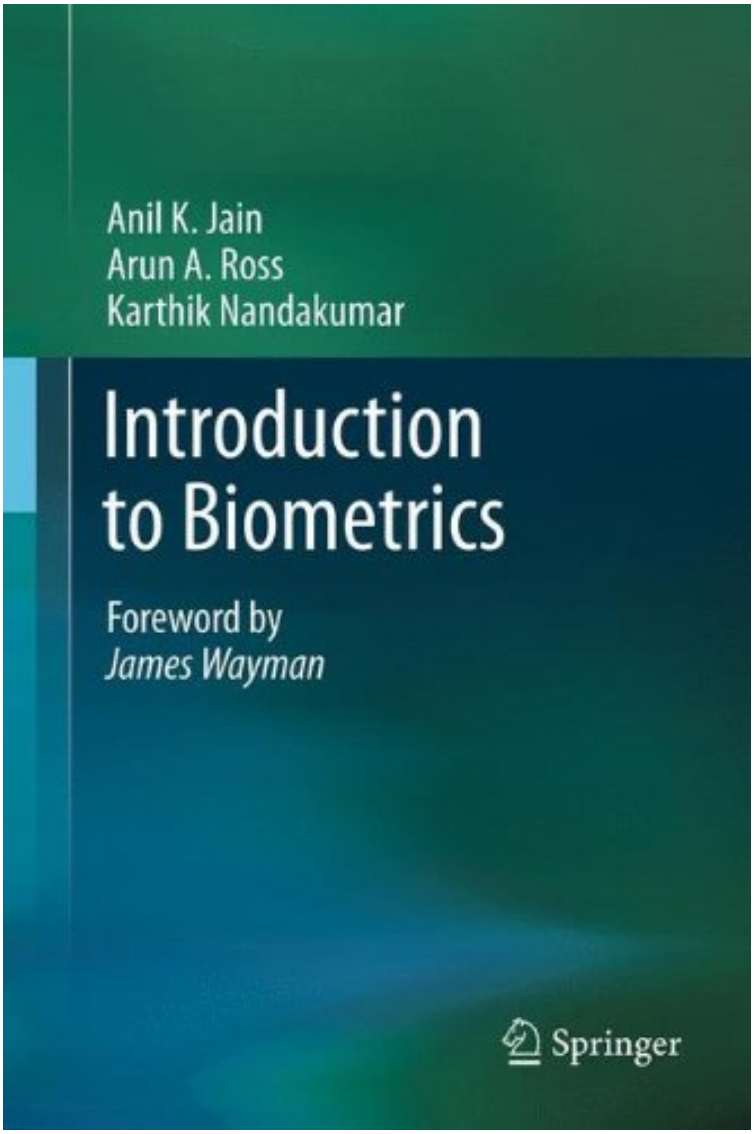

#1196273 in Books Jian A K 2011-11-17Original language:EnglishPDF # 1 9.21 x .75 x 6.14l, 1.40 #File Name: 0387773258312 pagesIntroduction to Biometrics | File size: 49.Mb

Anil K. Jain, Arun A. Ross, Karthik Nandakumar : Introduction to Biometrics before purchasing it in order to gage whether or not it would be worth my time, and all praised Introduction to Biometrics:

1 of 1 people found the following review helpful. Great Book on Biometric RecognitionBy Jie ZhouBiometrics has been a very active research area over the past 10 years. The number of biometric deployments has increased rapidly throughout the world. However, it has been very difficult for universities to offer biometric courses for undergraduate students. Lack of a good textbook is one of the major causes. Introduction to Biometrics by Jain, Ross and

Nandakumar will be indispensable for training a generation of young engineers and researchers. An excellent textbook will also significantly help instructors prepare their courses.The authors have done a great job in balancing topics. More important biometric traits (fingerprint, face, and iris) are treated in detail, while other biometric traits are discussed briefly. The authors are also very careful in balancing subtopics. Take fingerprint recognition as an example. There exist several different methods for fingerprint representation and matching. Instead of covering all such methods, the authors have chosen the one, which is not only the most popular, but also has broader applications in other biometric modalities and computer vision problems. This will make the book easy to understand and very useful for students with different backgrounds.Although the book covers many technologies that are quite new, it is very accessible. Take the chapter on biometric security as an example. A lot of people, including biometrics user group and even biometric researchers simply do not understand the importance as well as the difficulty of securing biometric templates. Although there are a number of technical papers and some good review papers on this topic, they are not very easy to read. But Section 7.5.1.1 of this book does an excellent job by comparing security of passwords to security of biometric templates. Figure 7.12 is quite useful for understanding the importance of securing biometric templates.For the above reasons, I believe this book will surely become a classic in biometrics and will play a very important role in speeding up the development of biometric technology in the world. I have recommended this book for all the undergraduate and graduate students in my lab. I also strongly recommend this book to every biometric researcher and student. I definitely feel that this book has the best material to benefit people working in different areas of biometrics either in academia or industry. I have also planned to translate this book into Chinese so that Chinese researchers and students who have difficulty in understanding English can benefit from this excellent book.This book is definitely the best book to learn biometrics at this point of time.0 of 1 people found the following review helpful. This book didn't work with the Kindle tool to change ...By CustomerThis book didn't work with the Kindle tool to change the font size so I was left with a book with 8DPI text not very user friendly.4 of 4 people found the following review helpful. Awesome!By PremI am a Professor, an active researcher and a consultant to Government and Corporate establishments in Biometrics. I have been teaching a popular post graduate elective "Biometrics" to students at my University. While the authors of this book are renowned stalwarts in this area and their publications are widely used both in research and teaching, a comprehensive textbook was thus far elusive and more than needed. This book is a fine gift to the Biometrics community - exceeding expectations! The treatment of the subject is very lucid and precise, covering all areas and current challenges in Biometrics.The supplementary material and exercises are excellent resources for augmenting students' understanding while there are extremely useful tips even for seasoned researchers with significant experience in the area. This book is a must read for teachers, students, researchers and Biometrics enthusiasts. For me personally, a long search is over!

Biometric recognition, or simply biometrics, is the science of establishing the identity of a person based on physical or behavioral attributes. It is a rapidly evolving field with applications ranging from securely accessing ones computer to gaining entry into a country. While the deployment of large-scale biometric systems in both commercial and government applications has increased the public awareness of this technology, "Introduction to Biometrics" is the first textbook to introduce the fundamentals of Biometrics to undergraduate/graduate students. The three commonly used modalities in the biometrics field, namely, fingerprint, face, and iris are covered in detail in this book. Few other modalities like hand geometry, ear, and gait are also discussed briefly along with advanced topics such as multibiometric systems and security of biometric systems. Exercises for each chapter will be available on the book website to help students gain a better understanding of the topics and obtain practical experience in designing computer programs for biometric applications. These can be found at: http://www.csee.wvu.edu/~ross/BiometricsTextBook/.Designed for undergraduate and graduate students in computer science and electrical engineering, "Introduction to Biometrics" is also suitable for researchers and biometric and computer security professionals.