



R. Jiang, S. Al-maadeed, A. Bouridane, P.D. Crookes, A. Beghdadi (Eds.)

Biometric Security and Privacy

Opportunities & Challenges in The Big Data Era

Series: Signal Processing for Security Technologies

- Includes advances on biometric recognition and fusion, such as deep learning, nonlinear graph embedding, fuzzy approaches, and ensemble learning;
- Addresses new challenges arising from big data, low-quality data and multi-spectral data;
- Introduces new biometric topics such as acoustic biometrics, EOG/ECG, vein patterns, mobile biometrics and cyber security.

This book highlights recent research advances on biometrics using new methods such as deep learning, nonlinear graph embedding, fuzzy approaches, and ensemble learning. Included are special biometric technologies related to privacy and security issues, such as cancellable biometrics and soft biometrics. The book also focuses on several emerging topics such as big data issues, internet of things, medical biometrics, healthcare, and robot-human interactions. The authors show how these new applications have triggered a number of new biometric approaches. They show, as an example, how fuzzy extractor has become a useful tool for key generation in biometric banking, and vein/heart rates from medical records can also be used to identify patients. The contributors cover the topics, their methods, and their applications in depth.

1st ed. 2017, VIII, 424 p. 194 illus., 146 illus. in color.

Printed book

Hardcover

149,99 € | £112.00 | \$179.00

^[1]160,49 € (D) | 164,99 € (A) | CHF 177,00

Softcover

149,99 € | £112.00 | \$179.00

^[1]160,49 € (D) | 164,99 € (A) | CHF 177,00

eBook

117,69 € | £89.50 | \$139.00

^[2]117,69 € (D) | 117,69 € (A) | CHF 141,50

Available from your library or springer.com/shop

MyCopy ^[3]

Printed eBook for just

€ | \$ 24.99

springer.com/mycopy

Order online at springer.com / or for the Americas call (toll free) 1-800-SPRINGER / or email us at: customerservice@springernature.com. / For outside the Americas call +49 (0) 6221-345-4301 / or email us at: customerservice@springernature.com.

The first € price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with [1] include VAT for books; the €(D) includes 7% for Germany, the €(A) includes 10% for Austria. Prices indicated with [2] include VAT for electronic products; 19% for Germany, 20% for Austria. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted. [3] No discount for MyCopy.

