



1st ed. 2015, XLIII, 832 p. 256 illus., 160 illus. in color.

 **Printed book****Hardcover**

- ▶ 199,99 € | £149.00 | \$229.00
- ▶ *213,99 € (D) | 219,99 € (A) | CHF 220.00

 **eBook**

Available from your library or

- ▶ springer.com/shop

 **MyCopy**

Printed eBook for just

- ▶ € | \$ 24.99
- ▶ springer.com/mycopy

A. Gkoulalas-Divanis, G. Loukides (Eds.)

Medical Data Privacy Handbook

- ▶ Provides in-depth coverage of medical data privacy research and the current technologies
- ▶ Explores issues of privacy regarding genetic information (DNA), XML documents, and RFID tags
- ▶ Includes survey chapters on privacy-preserving algorithms for publishing medical data
- ▶ Includes numerous case studies, examples, figures and discussions in a user-friendly format
- ▶ Provides coverage of the US and EU privacy legislation for medical data sharing, discusses major cases of privacy breaches in the healthcare domain and their associated costs

This handbook covers Electronic Medical Record (EMR) systems, which enable the storage, management, and sharing of massive amounts of demographic, diagnosis, medication, and genomic information. It presents privacy-preserving methods for medical data, ranging from laboratory test results to doctors' comments. The reuse of EMR data can greatly benefit medical science and practice, but must be performed in a privacy-preserving way according to data sharing policies and regulations. Written by world-renowned leaders in this field, each chapter offers a survey of a research direction or a solution to problems in established and emerging research areas. The authors explore scenarios and techniques for facilitating the anonymization of different types of medical data, as well as various data mining tasks. Other chapters present methods for emerging data privacy applications and medical text de-identification, including detailed surveys of deployed systems. A part of the book is devoted to legislative and policy issues, reporting on the US and EU privacy legislation and the cost of privacy breaches in the healthcare domain. This reference is intended for professionals, researchers and advanced-level students interested in safeguarding medical data.



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

The first € price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with * include VAT for books; the €(D) includes 7% for Germany, the €(A) includes 10% for Austria. Prices indicated with ** 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.