



1st ed. 2018, XVII, 576 p. 104 illus.

### Printed book

Hardcover

79,99 € | £69.99 | \$99.99

<sup>[1]</sup>85,59 € (D) | 87,99 € (A) | CHF 94,50

### eBook

67,82 € | £55.99 | \$79.99

<sup>[2]</sup>67,82 € (D) | 67,82 € (A) | CHF 75,50

Available from your library or [springer.com/shop](http://springer.com/shop)

### MyCopy <sup>[3]</sup>

Printed eBook for just

€ | \$ 24.99

[springer.com/mycopy](http://springer.com/mycopy)

Guy Lebanon, Mohamed El-Geish

# Computing with Data

An Introduction to the Data Industry

- Links to an online, user-friendly website to edit and run the book's plethora of code examples
- Presents principles that can be employed in applications ranging from software simulations to real-world web applications that serve millions of users
- Explains prevalent programming languages and data processing systems that are commonly used to address engineering challenges
- Introduces programmers to data science concepts and practices through new apparatuses such as R programming and data processing techniques
- Explores new tools and libraries to use in big data projects

This book introduces basic computing skills designed for industry professionals without a strong computer science background. Written in an easily accessible manner, and accompanied by a user-friendly website, it serves as a self-study guide to survey data science and data engineering for those who aspire to start a computing career, or expand on their current roles, in areas such as applied statistics, big data, machine learning, data mining, and informatics. The authors draw from their combined experience working at software and social network companies, on big data products at several major online retailers, as well as their experience building big data systems for an AI startup. Spanning from the basic inner workings of a computer to advanced data manipulation techniques, this book opens doors for readers to quickly explore and enhance their computing knowledge. Computing with Data comprises a wide range of computational topics essential for data scientists, analysts, and engineers, providing them with the necessary tools to be successful in any role that involves computing with data. The introduction is self-contained, and chapters progress from basic hardware concepts to operating systems, programming languages, graphing and processing data, testing and programming tools, big data frameworks, and cloud computing. The book is fashioned with several audiences in mind.

Lifelong 40% discount for authors



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