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Descrizione fisica	1 online resource (XI, 127 p. 41 illus., 28 illus. in color.)
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Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1 Introduction -- 2 Prerequisites from Matrix Analysis -- 3 Multivariate Distributions and Moments -- 4 Dimensionality Reduction -- 5 Classification and Clustering -- 6 Support Vector Machines -- 7 Machine Learning -- Index.
Sommario/riassunto	This book introduces the basic methodologies for successful data analytics. Matrix optimization and approximation are explained in detail and extensively applied to dimensionality reduction by principal component analysis and multidimensional scaling. Diffusion maps and spectral clustering are derived as powerful tools. The methodological overlap between data science and machine learning is emphasized by demonstrating how data science is used for classification as well as supervised and unsupervised learning. .