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Autore	Bolón-Canedo Verónica
Titolo	Feature Selection for High-Dimensional Data // by Verónica Bolón-Canedo, Noelia Sánchez-Marroño, Amparo Alonso-Betanzos
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Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (163 p.)
Collana	Artificial Intelligence: Foundations, Theory, and Algorithms, , 2365-3051
Disciplina	006.312
Soggetti	Artificial intelligence Data mining Data structures (Computer science) Artificial Intelligence Data Mining and Knowledge Discovery Data Structures
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Introduction to High-Dimensionality -- Foundations of Feature Selection -- Experimental Framework -- Critical Review of Feature Selection Methods -- Application of Feature Selection to Real Problems -- Emerging Challenges.
Sommario/riassunto	This book offers a coherent and comprehensive approach to feature subset selection in the scope of classification problems, explaining the foundations, real application problems and the challenges of feature selection for high-dimensional data. The authors first focus on the analysis and synthesis of feature selection algorithms, presenting a comprehensive review of basic concepts and experimental results of the most well-known algorithms. They then address different real scenarios with high-dimensional data, showing the use of feature selection algorithms in different contexts with different requirements and information: microarray data, intrusion detection, tear film lipid layer classification and cost-based features. The book then delves into

the scenario of big dimension, paying attention to important problems under high-dimensional spaces, such as scalability, distributed processing and real-time processing, scenarios that open up new and interesting challenges for researchers. The book is useful for practitioners, researchers and graduate students in the areas of machine learning and data mining.

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