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Titolo	Clustering Methods for Big Data Analytics : Techniques, Toolboxes and Applications / / edited by Olfa Nasraoui, Chiheb-Eddine Ben N'Cir
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Descrizione fisica	1 online resource (IX, 187 p. 63 illus., 31 illus. in color.)
Collana	Unsupervised and Semi-Supervised Learning, , 2522-848X
Disciplina	621.382
Soggetti	Electrical engineering Computational intelligence Data mining Big data Pattern perception Communications Engineering, Networks Computational Intelligence Data Mining and Knowledge Discovery Big Data/Analytics Pattern Recognition
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Clustering large scale data -- Clustering heterogeneous data -- Distributed clustering methods -- Clustering structured and unstructured data -- Clustering and unsupervised learning for deep learning -- Deep learning methods for clustering -- Clustering high speed cloud, grid, and streaming data -- Extension of partitioning, model based, density based, grid based, fuzzy and evolutionary clustering methods for big data analysis -- Large documents and textual data clustering -- Applications of big data clustering methods -- Clustering multimedia and multi-structured data -- Large-scale recommendation systems and social media systems -- Clustering multimedia and multi-structured data -- Real life applications of big data clustering -- Validation measures for big data clustering methods -- Conclusion.

Sommario/riassunto

This book highlights the state of the art and recent advances in Big Data clustering methods and their innovative applications in contemporary AI-driven systems. The book chapters discuss Deep Learning for Clustering, Blockchain data clustering, Cybersecurity applications such as insider threat detection, scalable distributed clustering methods for massive volumes of data; clustering Big Data Streams such as streams generated by the confluence of Internet of Things, digital and mobile health, human-robot interaction, and social networks; Spark-based Big Data clustering using Particle Swarm Optimization; and Tensor-based clustering for Web graphs, sensor streams, and social networks. The chapters in the book include a balanced coverage of big data clustering theory, methods, tools, frameworks, applications, representation, visualization, and clustering validation. .