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Titolo	Spatial Data Handling in Big Data Era : Select Papers from the 17th IGU Spatial Data Handling Symposium 2016 / / edited by Chenghu Zhou, Fenzhen Su, Francis Harvey, Jun Xu
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Descrizione fisica	1 online resource (XIII, 237 p. 84 illus.)
Collana	Advances in Geographic Information Science, , 1867-2434
Disciplina	910.285
Soggetti	Geographical information systems Data mining Data structures (Computer science) Earth sciences Geographical Information Systems/Cartography Data Mining and Knowledge Discovery Data Storage Representation Earth Sciences, general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Big geographical data storage and search -- Data-intensive geospatial computing and data mining -- Visualization of big geographical data -- Multi-scale spatial data representations, data structures and algorithms -- Space-time modelling and analysi -- Geological applications of Big Data and multi-criteria decision analysis.
Sommario/riassunto	This proceedings volume introduces recent work on the storage, retrieval and visualization of spatial Big Data, data-intensive geospatial computing and related data quality issues. Further, it addresses traditional topics such as multi-scale spatial data representations, knowledge discovery, space-time modeling, and geological applications. Spatial analysis and data mining are increasingly facing the challenges of Big Data as more and more types of crowd sourcing spatial data are used in GIScience, such as movement trajectories, cellular phone calls, and social networks. In order to effectively manage these massive data collections, new methods and algorithms are called

for. The book highlights state-of-the-art advances in the handling and application of spatial data, especially spatial Big Data, offering a cutting-edge reference guide for graduate students, researchers and practitioners in the field of GIScience.