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Sommario/riassunto   This book constitutes the refereed proceedings of the First
                          International Conference on Big Scientific Data Management, BigSDM
                          2018, held in Beijing, Greece, in November/December 2018. The 24
                          full papers presented together with 7 short papers were carefully
                          reviewed and selected from 86 submissions. The topics involved
                          application cases in the big scientific data management, paradigms for
                          enhancing scientific discovery through big data, data management
                          challenges posed by big scientific data, machine learning methods to
                          facilitate scientific discovery, science platforms and storage systems for
                          large scale scientific applications, data cleansing and quality assurance
                          of science data, and data policies.