



## Big Data Analytics and Cloud Data Management

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### Message from the Guest Editor

Dear Colleagues,

Big Data are large, complex, and unprocessed datasets that cannot be processed by traditional applications but can offer knowledge and value if properly analyzed. The exponential growth of data production, the diversity of data sources, along with the improvement of the computational capabilities of hardware have given rise to multifarious challenges of data management related to all seven V's that are used to describe Big Data, i.e.: volume, variety, velocity, variability, veracity, visualization, value. Such challenges are related to capturing the raw data and storing the raw data and pertinent metadata; analyzing the data and producing new knowledge; sharing data and knowledge; as well as offering services on the data for visualization and exploration. For the storage and processing of Big Data, Cloud Computing seems to be the ideal paradigm, as it offers flexibility for the processing environment, renting resources from cloud providers and inherently distributed services. Hence, cloud data management techniques that are tailored for the processing of Big Data are highly sought after both in the research world and in the industry.





# big data and cognitive computing



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## Message from the Editor-in-Chief

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