



## Big Data in Water Resources Engineering (BDWRE)

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C2-2-3, Block 2, CBD Perdana 3,  
Persiaran Cyberpoint Timur,  
Cyber 12, 63000 Cyberjaya,  
Selangor.

**Tel:** +603-86879842

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## Editorial

One of the emerging challenges in the 21st century era is collecting and handling 'Big Data'. The definition of big data changes from one area to other over time. Big data as its name implies is unstructured data that is very big, fast, hard and comes in many forms. Though the applications of big data was confined to information technology before 21st technology, now it is of emerging area in almost all engineering specializations. But for water managers/engineers, big data is showing big promise in many water related applications such as planning optimum water systems, detecting ecosystem changes through big remote sensing and geographical information system, forecasting/predicting/detecting natural and manmade calamities, scheduling irrigations, mitigating environmental pollution, studying climate change impacts etc. This study reviewed the basic information about big data, applications of big data in water resources engineering related studies, advantages and disadvantages of big data. Further, this study presented some of review of literature which has been done on big data applications in water resources engineering.

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# Big Data in Water Resources Engineering (BDWRE)

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