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Research Area: *Data and Knowledge Engineering - Data Mining, Machine Learning, and Databases*

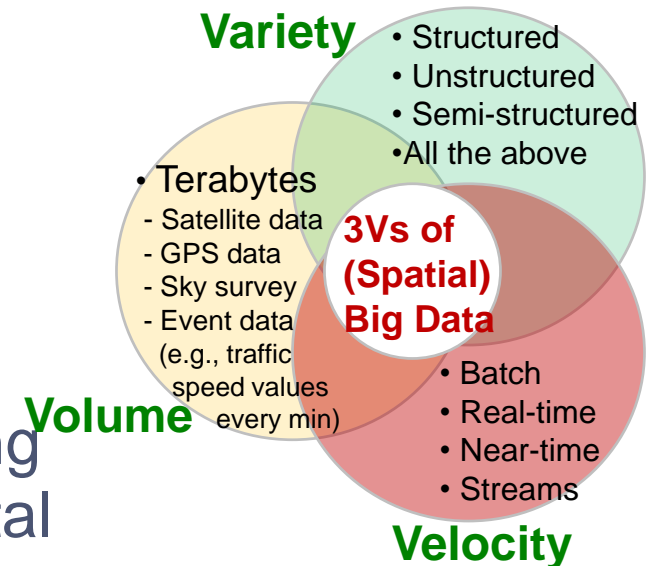
- **Data-driven knowledge discovery, data processing and management for non-traditional data** such as
 - Spatial/Temporal/Spatio-temporal data
 - Graph/Network data, Scientific data
- **Location-based computing, services, and Information**
- **Data Science applications** - public safe, public health, medical, life science, education, business, and so on.
- **Big Data analytics and management**

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Recent Works on Big Data Analytics

- Spatial association pattern mining methods for Spatial Big Data on
 - Hadoop, MapReduce, NoSQL
 - Hadoop, Spark
- Frequent pattern mining from evolving spatial data – Parallel and Incremental Approach in cloud computing environment



Near Future Works

- Spatial/Spatio-temporal pattern mining on GPU
- Data Mining and Machine Learning for streaming data
- Exploration of Polystore systems