



Proposal for Special Issue on Data Science for the Internet of Things

Data Science is gaining tremendous popularity in business world. It has an enormous effect on improving business productivity and performance. Data science can be defined as an interdisciplinary field involving techniques to collect, store, analyze, manage and publish data. In the Internet of things (IoT), different connected sensors measuring environmental parameters and generating user interaction data. Due to the increase popularity of IoT there are big flow of data predicted in coming days. The flourishing in data is not only going to require better infrastructure but smarter data science approaches. Data science techniques have been adopted to improve the IoT in terms of data throughput, self-optimization and self-management. In fact, incorporating the lifecycle proposed by the data science will impact the future of the IoT, allowing researchers to reproduce scenarios, optimize the collection, analysis and visualization of the data acquired by the IoT. Data science for IoT can help overcome some global challenges, generating more accurate decisions. Data science also allow integrating artificial intelligence; processing of data will become easier as devices will be able to self-learn about identifying patterns. The opportunities that can be exploited using IoT data science are growing more and more. With the current trend, IoT is one of the forerunners in data generation and this is exactly why data science will be required in IoT more than ever. One of the next key challenges will be integrating the IoT and Data Science

Topics include, but are not limited to the following:

- Management of IoT devices based on data knowledge
- Data-centric simulations of the IoT
- Methods for assessing IoT data quality
- Standards for IoT data discovery
- IoT Data Analytics
- Machine Learning for IoT
- Integrating IoT data with external data sources
- Data Science approaches for Smart Cities
- Data Science applications and services
- IoT application Orchestration
- IoT application in Health sector



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