WICT14: December 2014, Melaka, Malaysia

Data Quality and Big Data Management

Rationale of the need and objective of the symposium:

The quality of data is one crucial characteristic that determines the reliability of decisions made in many organizations. Data of poor quality stored in databases, data warehousing and clouds largely affects every information system in many application domains. The problem of poor data quality raises concern among data practitioners, researchers, industries and data consumers for the negative consequences it brings to data usage and decision making. With the emerging trend of big data, data quality research and practices is no longer limited to the traditional database world as big data introduces new (and yet unsolved) set of challenges to be addressed.

This symposium is a qualified platform for presenting and discussing novel ideas and solutions related to data quality problems and big data. Topics that cover the issues of assessing, monitoring, improving, and maintaining the quality of data are of interest, as well as the issues inherent in big data management.

The objectives of this symposium are as follow:

- To present and discuss the most recent emerging trends, innovations and practical implementation of data quality and big data management in research and industries.

- To provide a platform for academia and practitioners to exchange ideas and to discuss challenging new (or continuous) research issues in data quality and big data management.

Specific topics of interest

Recommended topics include but are not limited to the following:

- Data Quality dimensions
- Cloud Data Quality
- Big Data Quality and provernance
- Data Quality tools
- Data Quality measures
- Data quality assessment
- Development of data quality metrics
- Data quality management
- Data quality benchmarking
- Data quality in specific application domains
- Data quality policy
- Data quality framework
- Data Models, Algorithms and Programming Techniques for Big Data Processing
- Big Data Management
- Big Data Analytics and Metrics
- Big Data Managment Framework and Architectures
- Cloud Computing Techniques for Big Data
- Big Data in Mobile and Pervasive Computing
- Management Issues of Social Network Big Data
- Big Data Protection, Integrity and Privacy
- Security Applications of Big Data

- Big Data Search and Mining
- Big Data for Enterprise, Government and Society
- Real-life Case Studies of Value Creation through Big Data Analytics
- Big Data for Business Model Innovation
- Big Data for Government
- Big Data for Scientific Applications

Program committee

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