

*Call for Papers*

# **18th International Conference on Big Data Analytics and Knowledge Discovery**

## **DaWaK 2016**

In conjunction with DEXA 2016 ([www.dexa.org](http://www.dexa.org))

**Porto, Portugal  
September 5 - 8, 2016**

The best papers from DAWAK '16 will be expanded and revised for possible inclusion in:

- Distributed and Parallel Databases, Springer.
- Transactions on Large-scale Data- and Knowledge Centered Systems - TLDKS,

Submissions presenting current research work on both theoretical and practical aspects of Big Data, Knowledge Discovery are encouraged. Submissions on industrial applications and experiences are also highly encouraged.

### **Track 1 – Research:**

- Big Data Query Languages and Optimization
- Big Data Analytics and User Interfaces
- Big Data Indexing and Storing
- Big Data Analytics: algorithms, techniques, and systems
- Big Data Quality and Provenance Control
- Social Networking Data Graph Management
- Visualization Analytics for Big Data
- Big Data Searching and Discovery
- Big Data Management for Mobile Applications
- Scalability and Parallelization using Mapreduce and beyond
- Analytics for the Cloud Infrastructure
- Analytics for Unstructured, Semi-structured, and Structured Data
- Semantic for Big Data Intelligence
- Analytics for Temporal, Spatial, Spatio-temporal, and Mobile Data
- Analytics for Data Streams and Sensor Data
- Analytics for Big Multimedia Data
- Analytics for Social Networks
- Real-time/Right-time and Event-based Analytics
- Privacy and Security in Cloud Intelligence
- Reliability and Fault tolerance in Cloud Intelligence
- Big Data Application Design and Deployment
- Data Mining Techniques: Clustering, Classification, Association Rules, Decision Trees, etc.
- Data and Knowledge Representation
- Knowledge Discovery Framework and Process, Including Pre- and Post-processing
- Integration of Data Warehousing, OLAP and Data Mining
- Integrating Constraints and Knowledge in the KDD Process
- Exploring Data Analysis, Inference of Causes, Prediction
- Evaluating, Consolidating, and Explaining Discovered Knowledge
- Statistical Techniques for Generation a Robust, Consistent Data Model
- Interactive Data Exploration/Visualization and Discovery
- Languages and Interfaces for Data Mining
- Big Data Data Mining Trends, Opportunities and Risks
- Big Data Mining from Low-quality Information Sources

## **Track 2 - Industry and Application:**

- Big Data Analytics and Knowledge Discovery Tools
- Big Data Deployment Industrial Experiences
- Big Data Applications in Scientific, Government, Healthcare, Bioinformatics, Smart City, etc.
- Big Data Analytics Applications in E-commerce and Web Technology for Finance, Healthcare, Marketing, Telecommunications, etc
- Big Data for Intrusion/Fraud Detection
- Big Data and Business Process Intelligence (BPI)
- Big Data in Enterprise Management Models and Practices

## **Paper Submission Details**

Authors are invited to submit research and application papers representing original, previously unpublished work. Papers should be submitted in PDF or Word format. Submission Online at: [DaWaK 2016 Submission site](#) starting in January 2016.

Submissions must conform to Springer's LNCS format and should not exceed 14 pages. All accepted papers will be published in LNCS by Springer-Verlag.

Authors of selected best papers from DaWaK 2016 will be invited to submit the extended paper for special issues of Distributed and Parallel Databases and LNCS Transactions on Large-Scale Data and Knowledge-Centered Systems.

For further inquiries, contact the DaWaK 2016 PC chairs

## **IMPORTANT DATES**

- **Submission of abstracts: March 17, 2016**
- **Submission of full papers: March 31, 2016**
- **Notification of acceptance: May 19, 2016**
- **Camera-ready copies due: June 09, 2016**

## **Program Chairs**

- Sanjay K Madria, Missouri University of Science and Technology, USA <madrias@mst.edu>
- Takahiro Hara, Osaka University, Japan <hara@ist.osaka-u.ac.jp >

## **Program Committee**

TBD