



INTERNATIONAL

INVITED SESSION SUMMARY

Title of Session: Machine Learning Techniques for Uncertain Unstructured Big Data

Name, Title and Affiliation of Chair:

Mr. Bharat Singh

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Details of Session (including aim and scope):

Over 70% of enterprise data is unstructured text, and business leaders are keenly aware of the vast potential of such document repositories. Few however know how to harness this knowledge. Deciding on the nature of the data and the technologies to use can be a daunting task, and the uncertainty on the ROI of such an exercise only adds to the confusion.

This session focuses on a number of common use research cases where machine learning and NLP techniques have delivered valuable results. Some of the most important questions that need to be answered in preparation of a complex analytics solution involving unstructured data will be expected; and some possible choices will be evaluated. This session will leave data decision makers such as CIOs better equipped to tap into the wealth of knowledge that is available on their servers on uncertain unstructured big data.

For a complete introduction to the research area, it is recommended to follow below list of the IDT 2017 includes, but is not limited to the following topics:

- General approaches to the use of big data in business intelligence application
- Big data and its semantic feature
- Big Data Business Cloud Models
- Business Rule Semantics and Uncertain source of Big Data
- Domain-specific Unstructured Big Data Analytics
- Rule Mining from Big Data
- Model Discovery from Big Data
- Predictive Modelling for Big Data
- Privacy Issues in Big Data Analytics
- Scalability and Performance issues for Big Data
- Semantics and Uncertain Unstructured Big Data
- Topic Modelling for Big Data
- Unstructured and Semi-structured Data Mining
- Data Models for Big Data Analytics
- Index Structures for Big Data Analytics
- Interaction Design for Exploratory Big Data Analytics
- Machine Learning techniques for Big Data
- Managing and benefiting from massive and growing amounts of data,
- Handling data uncertainty,
- Handling unstructured data, and
- Uncertain Unstructured Big Data Analytics as a Service
- Architectural Design for Uncertain Unstructured Big Data
- Uncertain Unstructured Big Data Governance
- Conceptual/cognitive/programming Models for Uncertain Unstructured Big data analytics
- Clustering of Uncertain Unstructured Big Data

- Uncertain Unstructured Data Fusion and Multi Modal Analytics
- Data Models for Uncertain Unstructured Big Data Analytics
- Domain-specific Uncertain Unstructured Big Data Analytics
- Index Structures for Uncertain Unstructured Big Data Analytics
- Interaction Design for Exploratory Uncertain Unstructured Big Data Analytics
- Machine Learning techniques for Uncertain Unstructured Big Data
- Large-scale recommendation systems and graph analysis for Uncertain Unstructured Big Data
- Model Discovery from Uncertain Unstructured Big Data
- Physical Data Organization for Uncertain Unstructured Big Data
- Predictive Modeling for Uncertain Unstructured Big Data
- Privacy Issues in Uncertain Unstructured Big Data Analytics
- Rule Mining from Uncertain Unstructured Big Data
- Scalability and Performance issues for Uncertain Unstructured Big Data
- Security, privacy and legal issues specific to Uncertain Unstructured Big Data
- Semantics and Uncertain Unstructured Big Data
- Topic Modeling for Uncertain Unstructured Big Data
- Unstructured and Semi-structured Data Mining
- Visual Analytics for Uncertain Unstructured Big Data, etc

The session aims at addressing such issues from practical and theoretical perspectives.

Main Contributing Researchers / Research Centres (tentative, if known at this stage):

As a Big Data expert, We are applying machine learning and data mining techniques to textual data in order to classify, extract and organize information from a variety of sources. We conducted and directed research on NLP and text categorization for various educational and legal purposes. We are implementing this Large scale application case studies and domain-specific applications.

Website URL of Call for Papers (if any):

<http://bigdatalabs.org/index.php/conferences>

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