

# KDBD 2020: International Workshop on Knowledge Discovery for Big Data

Workshop to be held in conjunction with the 18th IEEE International Conference on Pervasive Intelligence and Computing (PICom 2020)

June 22-26 2020, Calgary, Canada

## Scope

In the big data era, with the enrichment of data collection and description measures, a wide array of data in various formats are collected much easier than before. It is significant to discover the knowledge hidden in the mass by comprehensive understanding and learning to realize the data intelligence, which can help human in various dimensions, such as intelligent decisions and predictive services. However, the volume, heterogeneous, low-quality and multimodal characteristics of the collected data pose great challenges to the design of knowledge discovery methods. Therefore, this workshop aims to provide a forum to present the state-of-the-art advancements on knowledge discovery for big data, which include related surveys, algorithms, platforms, systems and applications.

**Proposed submissions should be original, unpublished, and novel for in-depth research. Topics include but not limited to:**

- Acquisition, transmission, storage, index and visualization for big data
- Innovative methods for big data analytics
- Multimodal data fusion
- Cross-modal reasoning and retrieval
- Domain adaption and transfer learning
- Zero-shot and few-shot learning
- Deep learning and reinforcement learning
- Knowledge graphs
- Natural language processing
- Parallel, accelerated, and distributed algorithms and frameworks for big data
- Security, privacy and trust in big data
- Big data in Internet of Things
- Methods for academic, traffic, medical, financial, and judicial big data
- Other methods, models, architectures and applications related to big data

## Paper Submission Guideline

Papers should be prepared in IEEE CS format and submitted via the KDBD 2020 web site (<http://ubinec.org/~kdbd2020/>). Papers should be within 6 pages.

IEEE formatting information: [http://www.ieee.org/conferences\\_events/conferences/publishing/templates.html](http://www.ieee.org/conferences_events/conferences/publishing/templates.html).

## Important Date

Paper submission deadline: **March 10, 2020**

Acceptance Notification: **April 1, 2020**

## Workshop Committee Members

### Organizing Chair:

Fangming Zhong, Dalian University of Technology, China

### Co-Chair:

Qingchen Zhang, St. Francis Xavier University, Canada

Liang Zhao, Dalian University of Technology, China

Haozhe Wang, University of Exeter, UK

### Program Committee Chair:

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Liang Zou, China University of Mining and Technology, China

Yujia Zhu, University of Exeter, UK

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### International Committee Chair:

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### Advisory Chair:

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