

The 4th International Workshop on Knowledge Discovery for Big Data
(KDBD 2022)

<http://ubinec.org/~kdbd2022>

in conjunction with the

The 8th IEEE International Conference on Cloud and Big Data Computing
(CBDCom 2022)

<http://cyber-science.org/2022/cbdcom/>

September 12-15 2022, Calabria, Italy

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❖ INTRODUCTION

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.

❖ SCOPE AND TOPICS

- 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
- Graph Learning
- Knowledge graph reasoning and completion
- Recommendation system
- Knowledge tracing
- Multiscale big data computing

- Biomedical big data computing
- Bioinformatics quantitative structure-activity relationship model
- 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, social media and judicial big data
- Other methods, models, architectures and applications related to big data

❖ IMPORTANT DATES

Paper Submission Deadline: June 1, 2022

Acceptance Notification: July 1, 2022

✧ PAPER SUBMISSION GUIDELINE

For original papers in:

Regular Tracks: 6-8 pages

WiP/Workshop/Special Session Tracks: 4-6 pages

Poster Track: 2-4 pages

Authors are invited to submit their original research work that has not previously been submitted or published in any other venue. Regular, work-in-progress (WiP), workshop/special session, and poster papers need to be submitted via EasyChair (<https://easychair.org/conferences/?conf=dascpicombdcomcyber>).

Papers should be prepared in IEEE CS Proceedings format. IEEE formatting information:

http://www.ieee.org/conferences_events/conferences/publishing/templates.html

All accepted papers will be published in an IEEE Computer Society proceedings (IEEE-DL and EI indexed). Best Paper Awards will be presented to high quality papers. Selected papers will be recommended to prestigious journal Special Issues.

Some papers originally submitted as full papers can be accepted as short papers or posters during the review process. In such cases, the authors will need to reduce the paper accordingly when preparing the camera-ready version. At least one of the authors of any accepted paper is requested to register and present the paper at the conference. Ps: Log on the system and choose the Track of *International Workshop on Knowledge Discovery for Big Data*.

All accepted papers will be published by IEEE (IEEE-DL and EI indexed) in Conference Proceedings.

Selected papers will be invited to submit an extended version to

- 1. Mathematics (SI: Recent Advances in Artificial Intelligence and Machine Learning)**
- 2. Electronics (SI: Big Data Analysis Based Network).**