

Workshop on Three-way Clustering and Industrial Big Data

The 1st International Conference on Cognitive Analytics,
Granular Computing, and Three-way Decisions
October 23-25, 2020, Shanghai, China
<http://rskt.cs.uregina.ca/ccgt/>

BRIEF DESCRIPTION

Three-way decisions, which were suggested by Yiyu Yao, play an essential role in real world decision-making and information processing tasks in many fields. The main idea of three-way decision is thinking in threes and computing in threes, where three is the number of parts, elements, and components under consideration. In clustering theory, it is obviously that there may exist three types of relationships between an element and a cluster, namely, belong-to fully, belong-to partially (i.e., also not belong-to partially), and not belong-to fully. In order to capture the three types of relationships, Hong Yu introduced three-way clustering based on the theory of three-way decisions. Since the proposal of three-way clustering, some three-way clustering approaches are developed, which enrich the theories and models of three-way clustering.

The workshop on three-way clustering and industrial big data will be held in Shanghai, China in 2020 at the 1st International Conference on Cognitive analytics, Granular computing, and Three-way decisions (CCGT'20). The workshop will focus on the latest development of three-way clustering and industrial big data. We warmly invite you to participate by submitting and presenting original and unpublished research work.

TOPICS (OPEN LIST)

- Three-way decisions and three-way clustering
- Three-way clustering
- Two-way clustering and three-way clustering
- Three-way clustering and interval set clustering
- Three-way clustering and fuzzy clustering
- Three-way clustering and rough clustering
- Three-way decisions and industrial big data
- Three-way clustering and machine learning
- Three-way clustering and data mining
- Applications of three-way clustering
- Three-way clustering and information granulation

PAPER SUBMISSION

All the submitted papers will be thoroughly reviewed on the basis of indicators such as technical quality, relevance, presentation, significance, and clarity. Each paper should not be more than 10-12 pages long in the Springer-Verlag LNCS style, including figures, tables and references. The LNCS template may be downloaded from the link <http://www.springer.com/lncs>. The submitted papers must be in PDF format and needs to be submitted electronically using EasyChair link <https://easychair.org/conferences/?conf=ccgt20>. We strongly recommend the use of LaTeX style files for this year's conference.

The authors of accepted abstracts are supposed to give the full-length talk at the workshop. It will encourage all research work related to the three-way clustering method and applications.

IMPORTANT DATES

Full paper submission due	April 15, 2020
Notification to authors	May 31, 2020
Camera ready submission due	June 30, 2020
Conference dates	Oct 23-25, 2020

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We look forward to meeting with you in Shanghai, China!