

Big Data System

Organized in conjunction with IEEE ICPADS 2020

2-4 December 2020, Hong Kong

Due to the explosive growth of internet of things, social media, and mobile systems, massive data including structured, semi-structured, and unstructured data are generated. How to efficiently store, manage and transfer the data is becoming one of challenging questions. Big data system is supposed to solve or alleviate this challenge.

Designing a big data system with high performance, incremental scalability and fault tolerance is very important. It also poses great challenges and opportunities for data management and analytics. Additionally, the system scale employed to manage big data grows with the increase of the data volume. Therefore, many other features like power efficiency and total ownership costs are very important for big data systems as well. Furthermore, for a specific application scenario such as graph processing, designing a big data system with emerging hardware such as flash memory and GPU will offer useful insights into new methods of the application domain and even further.

The purpose of this workshop on Big Data Systems is to provide a forum for researchers and scientists from diverse backgrounds to exchange and discuss their state-of-the-art research findings on the latest development, up-to-date issues, and challenges in the field of advanced technologies in big data systems.

Potential topics include but are not limited to:

Design and implementation of big data systems

Big data platform

Data center architecture

Data storage and management

Fault tolerance of big data systems

Data deduplication

Big Data Analytics

Innovative methods for big data analytics

Performance of big data systems

Benchmarking big data systems

Security and privacy of big data system

QoS of big data system

Reliability of big data system

Power efficiency of big data system

Cluster computing

Parallel and distributed computing

High performance computing

Green computing

Paper Submission and Publication

Submissions should include author information, abstract, 5-10 keywords, and be in PDF format. Each submission must not exceed 10 pages in the IEEE 8.5" x 11" two-column format with 10-point font, including tables, figures and references. The final version will be limited to 6 pages in IEEE proceedings format for conference papers. Up to 2 extra pages may be purchased. The templates can be found here:

LaTeX: https://www.computer.org/cms/CPS/app/8x11-2/IEEECS_confs_LaTeX.zip

MS Word: <https://www.computer.org/cms/CPS/app/8x11-2/instruct8.5x11x2.doc>

Once accepted, the paper will be included into the IEEE conference proceedings published by IEEE Computer Society Press (indexed by EI). Authors (at least one) of any accepted paper are requested to register at the conference.

Important Dates

Paper submission: Aug. 15, 2020

Notification of Paper Acceptance: Sep.22, 2020

Camera ready due: Oct.7, 2020

Program Chairs:

Yuhui Deng, Jinan University

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Program Committee

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