



# 2023 IEEE 12th Data Driven Control and Learning Systems Conference

May 12-14, 2023, Xiangtan, Hunan Province, China

## CALL FOR PAPERS

The 2023 IEEE 12th Data Driven Control and Learning Systems Conference (DDCLS'23), an annual conference jointly organized by technical committee on Data Driven Control, Learning and Optimization, Chinese Association of Automation, sponsored by IEEE Beijing Section and locally organized by Hunan University of Science and Technology, will be held during May 12-14, 2023 in Xiangtan, Hunan Province, China. The objectives of DDCLS'23 are to provide high quality research and professional interactions on the advancement of theory, technology and practical applications in the fields of data-driven control, learning, automation and optimization. The conference consists of keynote addresses, distinguished lectures panel discussion, workshops, oral and poster sessions.

The DDCLS conference has been successfully held for 11 consecutive sessions. The wonderful invited presentations, fruitful research results, in-depth academic exchanges and various conference formats have forged the soaring wings of DDCLS conference. Especially facing the rigorous pandemicity in the past three years, the organizing committee and the local organizers have cooperated to dedicate a high-quality academic event in-site. **DDCLS'22 was issued as the 2022 Top Academic Conferences by Chinese Association for Science and Technology (CAST).**

Xiangtan, called Tanzhou in ancient times, is located in the middle of Hunan province and the middle reaches of the Xiangjiang River. It is about 40 kilometers away from Changsha and Zhuzhou. It constitutes the "Golden Triangle" area with the most developed politics, economy and culture in Hunan Province, and is an important member of the Chang-Zhu-Tan metropolitan area. Xiangtan has a long history and outstanding people. It is a red cultural resort and the birthplace of Huxiang culture. It is the hometown of founding fathers Chairman Mao and Dehuai Peng, as well as historical and cultural celebrities such as Guofan Zeng and Baishi Qi. It is also famous for its characteristic products such as Xianglian and sepiolite. Xiangtan is ecologically livable, sitting on the first bay of the Xiangjiang River, with a beautiful ecological environment and a forest coverage rate of 46.8%. Welcome to Xiangtan!

The English papers accepted by our previous DDCLS conferences had been included in the IEEE Xplore, and indexed by EI Compendex or ISTP database. The DDCLS'23 covers both theory and applications in all the areas of data driven control and learning systems. The topics of interest include, but are not limited to:

- Data-driven control theory, approaches and applications
- Model-free adaptive control theory and applications
- Active disturbance rejection control and applications
- Data-driven fault diagnosis, health maintenance and performance evaluation
- Iterative learning identification, iterative learning control (repetitive control)
- Data-driven modeling, optimization, scheduling, decision and simulation
- Statistical learning, machine learning, data mining and practical applications in automation field
- Neural networks, fuzzy systems control methods in data driven manner
- Adaptive dynamic programming, reinforcement learning and learning based control
- Robustness on data-driven control
- Relationships between data-driven and model-based control methods
- Applications of data-driven methods to industrial processes
- Data-driven modeling, control and optimization for traffic systems
- Data-driven control for practical complex processes
- Technology and applications of complex big-data systems
- Big data in industrial processes and its applications in modeling and control

**Submission Notices:** Full papers (regular or invited) describing original work, extended abstract, invited session proposals should be submitted by ~~December 31, 2022, January 31, 2023, February 28, 2023~~ through the portal <http://cms.amss.ac.cn/>. Upon acceptance, authors will be required to register and present their papers at DDCLS'23. For further information and submission requirements for manuscript, please refer to the conference website <https://ddcls23.hnust.edu.cn> or contact us via email [secretary\\_ddcls@163.com](mailto:secretary_ddcls@163.com).

Full Paper/Invited Session Proposals Submission	Notification of Acceptance	Final Manuscript Submission/ Author Registration
<del>December 31, 2022, January 31, 2023, February 28, 2023</del>	March 25, 2023	April 12, 2023

**Sponsored by:** Technical Committee on Data Driven Control, Learning and Optimization, Chinese Association of Automation  
Qingdao University

**Co-Sponsored by:** IEEE Beijing Section  
Beijing Information Science and Technology University

**Locally Organized by:** Hunan University of Science and Technology

