IccCBDA

2027 IEEE 12th International Conference on Cloud Computing and Big Data Analytics

23-25 April 2027 | Chengdu, China

Special Session 3

Data Science for Intelligent Mobility Systems

Intelligent mobility systems continuously generate massive heterogeneous spatiotemporal data from connected vehicles, roadside sensors and public transport terminals. Powered by cloud computing, big data analytics and artificial intelligence, data science has become an indispensable foundation to unlock the value of mobility data and support safe, efficient and low-carbon transportation services. This special session brings together researchers and engineers to share cutting-edge data-driven theories, algorithms and practical system implementations for intelligent mobility.

It provides an interdisciplinary communication forum bridging computer science, data science and transportation engineering. The session focuses on advancing data science solutions that can be deployed on cloud and big data infrastructures, addressing key practical bottlenecks in intelligent mobility. It also seeks to inspire original and translational research, promoting the development of smarter, greener and more sustainable urban transportation systems.

Topics

- Multi-source mobility data fusion and trajectory mining
- Traffic forecasting and travel demand modelling
- Data analytics for connected and autonomous vehicles
- Cloud-edge collaborative computing for transportation scenarios
- Privacy-preserving mobility data sharing
- Trustworthy AI for traffic decision-making
- Digital twin and large-model-enabled traffic perception and optimization

Publication

Submitted papers will be peer reviewed by conference committees, and accepted papers will be included in ICCCBDA 2027 Conference Proceedings.

Submission Link and Templates

Submission Link: *https://easychair.org/conferences/?conf=icccb-da2027* ((Please select Track 1)

Submission Templates:
https://icccbda.com/instruct8.5x11x2.doc (Word Version)
https://icccbda.com/ieee-latex-conference-template.zip (LaTeX Version)

Special Session Chairs



Gabriel Gomes de Oliveira
University of Campinas (Unicamp), Brazil



Yuzo Iano
University of Campinas (Unicamp), Brazil

Important Dates

Submission deadline: December 5, 2026
Notification Date: January 5, 2027
Registration Deadline: January 20, 2027

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