



INTERNATIONAL FEDERATION
OF AUTOMATIC CONTROL

<https://ecosm2024.dlut.edu.cn/>
ecosm2024@dlut.edu.cn



CALL FOR PAPERS

7th IFAC Conference on Engine and
Powertrain Control, Simulation and Modeling
Oct 30–Nov 1, 2024, Dalian, China

Advisory Committees

Keqiang Li, Chair (China)
Nanning Zheng (China)
Per Tunestål (Sweden)
Hui Xie (China)
Chenghui Zhang (China)

Organizing Committees

General Chair
Tielong Shen (China)

IPC Chair
Hong Chen (China)

IPC Vice-chair
Lars Eriksson (Sweden)

Vice-chair
Yuhu Wu (China)

Editor
Carlos Guardolia (Spain)

Co-chairs Publication
Jinwu Gao (China)
Zhenhui Xu (Japan)

Co-chair Registration
Jiangyan Zhang (China)

Co-chairs Publicity
Yudai Yamasaki (Japan)
Yahui Zhang (China)
Fuguo Xu (Japan)

Co-chairs Industry
Junichi Kako (Japan)
Kunihiko Suzuki (Japan)
Bingzhao Gao (China)

Co-chairs Invited Session
Mingxin Kang (China)
Kang Song (China)
Jingyu Zhu (China)
Hongqing Chu (China)

Co-chair Financial
Jian Zhao (China)

Co-chair Exhibition
Lin He (China)

Co-chair Tutorial
Jing Zhao (China)

IFAC Main Sponsoring Technical Committee

TC 7.1. Automotive Control

IFAC Co-Sponsoring Technical Committees

TC 1.3. Discrete Event and Hybrid Systems
TC 2.2. Linear Control Systems
TC 2.4. Optimal Control

Co-Sponsors

The Society of Instrument and Control Engineers (SICE)
Chinese Association of Automation (CAA)
CAA Technical Committee on Vehicle Control and Intelligence (VCI)
Intelligent technology sub-society of Chinese society for internal combustion engines
Chinese Society for Internal Combustion Engines (CSICE)
Dalian University of Technology

Scope

In the global quest to move toward cleaner, more fuel-efficient, intelligent and safer vehicles, control plays a fundamental role. Most innovative technologies in the field of internal combustion engines, transmissions or alternative propulsion systems could not achieve their full potential without the help of automatic control. In turn, control design and validation definitely need solid support from physical modeling and simulation in order to be effective. The E-COSM2024 will explore new trends in engine and powertrain control, simulation and modeling. The aim is to bring researchers and practitioners from industry and academia together to present and discuss the latest academic research developments relating to the basic and merging topics, as well as industrial experience in real world applications.

Topics (included but not limited)

- Modeling and simulation frameworks of engine and powertrain
- Model-based control, estimation and diagnostics for CI and SI engines
- Optimization and control for electrified vehicles
- Connected and automated vehicle control
- Thermal management for next generation vehicles
- Intelligent technologies to powertrains for supervision, management and diagnostics
- Traffic flow modeling and control
- Large-scale agents control and optimization

Submissions

All submissions must be in English. The categories and lengths are:

- Regular paper (4-6 pages)
- Discussion paper (2-4 pages)
- Invited Session paper (might include regular or discussion papers)

Prospective authors are requested to submit their contributions in IFAC Conference Manuscript Management System: <http://ifac.papercept.net>
The templates for manuscripts are available at the website.

Important Dates

Submission open:	May 1, 2024
Initial paper submission:	June 15, 2024
Acceptance notification:	August 12, 2024
Final papers submission:	September 8, 2024

IFAC Young Author Award

The IFAC Young Author Award will be granted to a young researcher at E-COSM 2024. Eligible candidates are authors of high-quality papers, younger than 30 at the time of event, and who will present the paper during the conference.

Copyright Conditions:

"All publication material submitted for presentation at an IFAC-sponsored meeting (Congress, Symposium, Conference, Workshop) must be original and hence cannot be already published, nor can it be under review elsewhere. The authors take responsibility for the material that has been submitted. IFAC-sponsored conferences will abide by the highest standard of ethical behavior in the review process as explained on the Elsevier webpage (<https://www.elsevier.com/authors/journal-authors/policies-and-ethics>), and the authors will abide by the IFAC publication ethics guide-lines (<https://www.ifac-control.org/events/organizers-guide/PublicationEthicsGuidelines.pdf/view>). Accepted papers that have been presented at an IFAC meeting will be published in the proceedings of the event using the open-access IFAC-PapersOnLine series hosted on Science-Direct (<https://scencedirect.com/>). To this end, the author(s) must grant exclusive publishing rights to IFAC under a Creative Commons license when they submit the final version of the paper. The copyright belongs to the authors, who have the right to share the paper in the same terms allowed by the end user license, and retain all patent, trademark and other intellectual property rights (including research data)."

