

5th IFAC/IEEE-CSS Workshop on Control of Systems Governed by Partial Differential Equations (CPDE 2025)

June 18-20, 2025, Beijing, China

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Hosting Institution/location

Beijing University of Technology, China

Important Dates

- Submission Opening:
October 1, 2024
- Initial Submission Due:
December 20, 2024
- Decision Notification:
March 15, 2025
- Final Submission Due:
April 15, 2025

Invitation

It is our great pleasure to invite you to participate in the 5th joint IFAC/IEEE-CSS Workshop on CPDE and CDPS to take place in Beijing, China from June 18-20, 2025. IFAC workshop on CPDE has been held in France (2013), Italy (2016), Mexico (2019) and Germany (2022).

Topics

The workshop will address new and state-of-the-art developments in modeling and control of distributed parameter systems and their application. This covers approaches and techniques for the modeling, analysis, control, and observer/estimator design for systems governed by PDEs, including methods such as differential geometric and algebraic approaches, semigroup and operator theory, Lyapunov-based and backstepping techniques, optimal control, controllability and observability analysis, stability theory, model reduction for control. In addition, applications include (but are not limited to) smart and adaptive structures in mechatronics, marine systems and aerospace engineering, flow control, energy generation, distribution and storage, process systems, adaptive optics, quantum systems, distributed cooperative systems, communication, embedded actuators and sensors, traffic control and network congestion, and flexible micro-structures.

Summer school

An introductory summer school entitled "An introduction to modelling and control of systems governed by PDEs" is organized before the workshop from Sunday to Tuesday June 15-17 2025.

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All publication material submitted for presentation at an IFAC-sponsored meeting must be original and hence cannot be already published, nor can it be under review elsewhere. Accepted papers that have been presented at the workshop will be published in the proceedings of the event using the open-access IFAC Papers On Line (<http://www.ifac-papersonline.net/>). To this end, the author(s) must confer the copyright to IFAC when they submit the final version of the paper through the paper submission process. Selected papers will be invited to submit extended versions of their manuscripts for consideration in the *IMA Journal of Mathematical Control and Information*.