

The 22nd World Congress of the International Federation of Automatic Control

July 9 – 14, 2023, Yokohama, Japan

The IFAC World Congress is the largest event in the field of control science and technology, held every three years since 1960. It offers the most up-to-date and complete view of control techniques, with the widest coverage of application fields, and is attended by a worldwide audience of scientists and engineers from academia and industry. **The IFAC World Congress 2023 will be held in Yokohama, Japan**, which is the second congress hosted in Japan with the first being IFAC 1982 in Kyoto.



Conference Format

The IFAC2023 national organizing committee would make every effort to realize face-to-face meetings as possible. Still, there will also be an option to participate on-line, to accommodate the likely lasting influences of the COVID-19 pandemic.

Program Highlights

The vision of IFAC2023 is “Wa”, which literally means “harmony” in Japanese. In a broad sense, it represents the design of large harmonious control loops to solve societal problems in various domains.

The congress program includes special sessions to focus on this vision from various aspects, through *plenary and semi-plenary lectures, forums, panel discussions, demonstrations, tutorials, workshops*, as well as regular technical sessions.



Paper Categories

- Regular paper (R): up to 6 pages in the proceedings (up to 8 pages for initial submission)
- Survey paper (S): up to 12 pages in the proceedings (up to 16 pages for initial submission)
- Discussion paper (D): from 2 to 4 pages, for discussing specific topics, particularly from non-academic participants (not to be included in IFAC-PapersOnLine (POL))

Submission Categories

- Regular contributions (R/S/D)
- Invited contributions (R/S/D): invited by the organizers, selected under regular criteria
- Open Invited Track contributions (R/S/D): focus on specific research topics, based on proposals
- Demonstrator contributions (R/D): for promoting and showcasing research or education-oriented devices, innovative prototypes and transferring technologies to the enterprise.
- Dissemination contributions: papers recently accepted by IFAC journals, not to be included in IFAC-POL
- Tutorials and Workshops

Important Dates

Sep. 15, 2022	Open Invited Track proposals
Oct. 15, 2022	Invited Session proposals
Oct. 31, 2022	Regular / Invited papers submission
Nov. 30, 2022	Tutorial / Workshop proposals
	Discussion papers (Invited Sessions / Open Invited Tracks)
Feb. 1, 2023	Discussion papers (Regular)
Feb. 21, 2023	Notification of acceptance
Mar. 31, 2023	Final paper submission



IFAC2023 Technical Areas

Systems & Signals
Design Methods
Computers, Cognition & Communication
Mechatronics, Robotics & Components
Manufacturing and Logistics Systems
Process and Power Systems
Transportation & Vehicles Systems
Bio- & Ecological Systems
Social Systems

National Organizing Committee

IFAC President: Hajime Asama
General Chair: Jun-ichi Imura
General Vice-Chairs: Tetsuo Sawaragi
Keiko Takahashi
Advisory Board Chair: Shinji Hara

International Program Committee

IPC Chair: Hideaki Ishii (JP)
IPC Co-Chair: Yoshio Ebihara (JP)
IPC Vice-Chairs: Carlos Eduardo Pereira (BR)
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Klaus Janschek (DE)
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IPC Editors:
Lars Eriksson (SE) Thierry Marie Guerra (FR)
Hideaki Ishii (JP) Benoit lung (FR)
Andreas Kugi (AT) Jay H. Lee (KR)
Laura Menini (IT) Lawrence Stapleton (IE)
Ronald van Nooijen (NL)

IFAC2023 Industry Group is a large and active community including colleagues from academia and industry. It takes in organizing various collaborative events such as panel discussions, forums, exhibitions and technical tours. (Chair: Kazuya Asano)

Industry subgroups

Mechatronic Systems
Power & Energy Systems
Machinery and Robotics
Steel Manufacturing Process
Chemical Processes
Automotive Control
Smart Cities
Smart Agriculture
Control in Construction

Aerospace Technology
Marine Systems
Environmental Systems
Biological & Medical Systems
Systems Science & Technology
Internet of Things
Artificial Intelligence
Measurement and Instrumentation

Contact

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Organizers

IFAC Japan NMO (under the Science Council of Japan)
Japan Association of Automatic Control (JAAC)

Co-Organizers

The Society of Instrument and Control Engineers (SICE)
The Institute of Systems, Control and Information Engineers (ISCIE)

Supported by

City of Yokohama
Yokohama Convention and Visitors Bureau
Japan National Tourism Organization (JNTO)

JAAC **SICE** **ISCIE**



Join the IFAC Control Orchestra!

The IFAC2023 organizers are planning to form an orchestra ensemble, including only musicians from the automatic control community, to make a live performance on site during the world congress. We are looking for colleagues who have some musical experience. If you have some musical experience and are interesting in this event, please subscribe to the orchestra mailing list through the congress website.



[Performance at IFAC2020](#)

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(<https://www.ifac-control.org/events/organizers-guide/PublicationEthicsGuidelines.pdf/view>).

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