

the first ROCOND in Asia

おこしやす

## Call for Papers

It is our pleasure to invite you to the 10th IFAC Symposium on Robust Control Design (ROCOND 22) to be held in **Kyoto, Japan from August 30 to September 2, 2022**. Kyoto is the historical and cultural heart of Japan.

ROCOND was initially planned to be held in September 2021. Due to the COVID-19 pandemic, ROCOND has been postponed until 2022. The organizing committee will make maximum efforts on further enhancement of the symposium.



## Background and Scope

IFAC Symposium on Robust Control Design (ROCOND) is the main event organized by IFAC TC 2.5 on Robust Control. Over the last three decades, robust control has been a central topic in the control field, and has made great progress in establishing theoretical principles, numerical methods and effective algorithms for the analysis and synthesis of complex engineering control systems. Even though robust control is a matured field, recent topics related to big data, AI, and machine learning bring new challenges and opportunities in robust control.

Previous ROCONDs were held in Rio de Janeiro (1994), Budapest (1997), Prague (2000), Milan (2003), Toulouse (2006), Haifa (2009), Aalborg (2012), Bratislava (2015) and Florianopolis (2018). ROCOND'22 will celebrate its 10th event. Moreover, ROCOND'22 will be the first ROCOND to be held in Asia and will be a precious opportunity for the Asian research community to become more involved and for ROCOND to grow.

## Objectives

The objective of the IFAC ROCOND'22 is to provide a forum for professionals, theorists, researchers, engineers and students involved in the broad field of Control Engineering to integrate and exchange their knowledge, experience, results and ideas in diverse areas of robust control design, and to explore latest theoretical developments as well as control applications in various industries.

## Important Dates

Jan. 7	2022	Initial paper submission deadline
Mar. 25	2022	Notification of acceptance
Apr. 22	2022	Final paper submission deadline
Jul. 31	2022	Early bird registration deadline
Aug. 16	2022	Registration deadline*

\*Onsite registration will **not be available in the symposium.**

## Kyoto

Kyoto had been the capital of Japan for over 1,000 years. The origin goes back to 794 CE. Kyoto has many UNESCO World Heritage Sites. Throughout the city, visitors will be greeted by an exhaustive number of traditional buildings that have been beautifully preserved.

“おこしやす” (o-ko-shi-ya-su) on the top picture is a traditional word used in Kyoto. Inhabitants of Kyoto use this word to extend a warmest welcome to guests.



## Topics

ROCOND'22 covers a wide range of research directions in control theory and applications. The topics of interest include the following, but are not limited to:

- Robust control
- Robust stability and performance analysis
- Robust nonlinear control
- Robust adaptive control
- Robust control for distributed parameter systems
- Control applications
- Robust optimization
- LMI and convex optimization in control
- Computational methods in control
- Identification for robust control
- H-infinity control, identification, and estimation
- Analysis of big data affected by uncertainties
- Fault detection in uncertain systems
- Hybrid systems
- Networked systems
- Model and controller reduction
- Optimal control and dynamic optimization



# IFAC ROCOND 2022

August 30-September 2, Kyoto, Japan

Website: <https://rocond21.ee.t.kyoto-u.ac.jp>

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TC 2.4 – Optimal Control

## Early-Bird Registration Fees

Regular registration 600 USD (up to two papers can be uploaded)

Student registration 330 USD (up to one paper can be uploaded)

From August 1 to August 16, the normal rate (660 USD) will be required for regular registration. Student registration fee will not change. On and after August 17, no registration will be available. Onsite registration will not be provided in the symposium.

## Paper Submission

All papers must be written in English and prepared in accordance with the IFAC paper style. An author guide is available on the IFAC website (<https://www.ifac-control.org/events/authors-guide>). All papers must be submitted electrically through PaperPlaza Conference Manuscript Management system (<http://ifac.papercept.net/>). The length of papers for initial submission is limited to 8 pages. For final submission, papers are limited to 6 pages, with possible extension to a maximum of 8 pages subject to additional charge.

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## IFAC Young Author Award

In order to stimulate the involvement of young scientists and engineers in IFAC, as well as to recognize top-level contributions of the younger generation in the field of robust control, **IFAC Young Author Award** will be presented at the symposium. The first and presenting author of a paper under 30 years of age is eligible to be nominated. Self-nominations are not allowed.

## Response to COVID-19

ROCOND 2022 organizing committee is closely monitoring the worldwide situation of COVID-19 (coronavirus). Our response to COVID-19 will be posted regularly at <http://rocond21.ee.t.kyoto-u.ac.jp/>