



CONFERENCE DATES → 30 May - 1 June 2023

## CALL FOR PAPERS – SICFP23

### INVITATION

The Laboratory of Innovative Hydraulics and Automation (IHA) at Tampere University (TAU), Finland, will host the 18th Scandinavian International Conference on Fluid Power, SICFP23, May 30 - June 1, 2023.

The conference is arranged on a biannual basis alternating between Tampere University and Linköping University. Right now, fluid power is in an exciting stage of transformation - from the perspective of digitalization, the use of artificial intelligence, automation, and sustainability.

The SICFP is a forum for exchanging information on the latest developments in off-road machinery, robotics, and other applications of fluid power from industry and academia.

All manuscripts are offered the opportunity to go through a peer-review process to guarantee scientific soundness.

I look forward to seeing you in Tampere in May 2023.

### Tatiana Minav

Professor

Conference Chairperson



### IMPORTANT DATES

SUBMISSION OF ABSTRACTS

→ 30 May 2022

NOTIFICATION OF ACCEPTANCE

→ 30 June 2022

COMPLETE MANUSCRIPTS

→ 30 October 2022

FEEDBACK FROM THE PEER-REVIEW

→ 15 December 2022

FINAL MANUSCRIPT DEADLINE

→ 31 January 2023

CONFERENCE DATES

→ 30 May - 1 June 2023

### ORGANIZER

The conference will be organized and hosted by [Innovative Hydraulics and Automation \(IHA\)](#) in the Faculty of Engineering and Natural Sciences at Tampere University (TAU), Finland. Supporting hosts will be the [Global Fluid Power Society \(GFPS\)](#) and the Finnish cluster [Sustainable Industry X \(SIX\)](#).

Fluid power and automation are one of the Laboratory's priority research areas. Our main research areas include sustainable drive systems and actuators, autonomous heavy machinery, and the robotic control of working machines. In fluid power research, we are following three principles: interdisciplinary research, the bridging of theory and practice, and cooperation with industry.

## ABSTRACT

Authors are invited to submit titles and abstracts of proposed papers for SICFP23 by 30 May 2022. Abstracts of no more than 500 words should state the purpose, result, and conclusions of the proposed papers with supporting figures where appropriate. The abstracts are submitted through the online registration system of the conference. More detailed information will be available on the conference website:

<https://events.tuni.fi/sicfp2023/>



## TOPICS

- Twin transition technologies (zero-emission, digitalization)
- Novel drives, transmissions, and actuators
- Efficient and intelligent components and systems (control, design, simulation, modeling)
- Predictive analytics (monitoring, diagnosis)
- Noise and vibration
- Digital and switched fluid power systems
- Functional safety and safety of intended functions

## TAMPERE

Tampere has made a name for itself as a major Nordic congress destination, particularly since the inauguration of Tampere Hall two decades ago. The city's excellent infrastructure and services meet the needs of even the most demanding congress delegate.

The SICFP23 conference will be held in Tampere Hall, which is a leading conference facility in Finland and a major conference and concert center in Scandinavia. Tampere Hall hosts over 20 international conferences every year.

Tampere is a beautiful, green city between two lakes, offering an array of leisure activities, such as Nordic walking, lake cruises, original sauna experiences, and swimming in the freshwater lakes.

Tampere is easily accessible. Tampere International Airport is served by direct flights from several European cities. The airport is compact and close to the city center. You will be at your hotel half an hour after your plane has landed! If you fly to Helsinki, then the easiest way is to take a train from Helsinki Airport to Tampere. Another option is to take a direct bus from Helsinki airport to Tampere city center.



## CONTACT INFORMATION

### SICFP23

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