

4th International Conference on Thermal Issues in Machine Tools

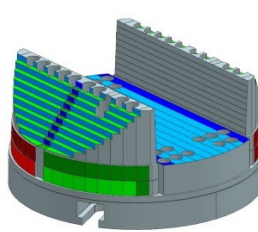
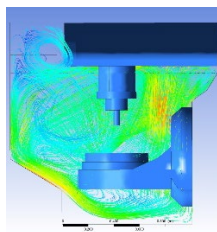
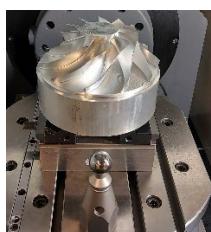
ICTIMT 2025

17th – 19th of June 2025

2nd announcement and call for papers

The Organizing Committee of CIRP ICTIMC2025 cordially invites you to participate in the 4th CIRP sponsored International Conference on Thermal Issues in Machine Tools, held in Zurich, Switzerland. The conference will be a place for researchers, users and providers of machinery with

the scope to show the recent progress and cutting edge of technologies, innovations and visions in the area of analysis and compensation of thermal errors in manufacturing machinery.



Organisation

- Prof. Dr.-Ing. Markus Bambach, ETH Zürich
- Prof. em. Dr.-Ing. Konrad Wegener, ETH Zürich/inspire AG
- Dr. Josef Mayr, inspire AG
- Prof. Dr. Andreas Kunz, ETH Zürich
- Prof. Dr.-Ing. Steffen Ihlenfeldt, TU Dresden
- Dr. Ralf Gerdes, inspire AG
- Dr. Martin Stöckli, inspire AG

- Sebastian Lang, inspire AG
- Dr. Petr Kaftan, inspire AG
- Marco Schneider, ETH Zürich
- Athina Kipouridis, ETH Zürich
- Josef Meile, inspire AG
- Ashwani Kumar, ETH Zürich

Conference site

More than 2000 years ago, Zurich was founded by the Romans as a fortress. Today, Zurich has about 400'000 inhabitants and is the largest city in Switzerland. Zurich is the main town of a canton also named Zurich. With snow covered mountains in sight, the huge water reservoir of the Lake of Zurich, important and numerous historical monuments, and a rich cultural scene, Zurich is one of Europe's most attractive cities. Zurich is not only important for its universities, but is also the commercial centre of Switzerland and a platform for international trade.

In 1855, the Swiss Federal Institute of Technology (ETH) was founded mainly as a school for engineers, but also as compensation to Zurich for not becoming the capital city of Switzerland. Gottfried Semper designed the imposing main building, and it was built from 1861 to 1864. Since the founding of ETH Zurich, it has been a driving force behind the Swiss industry, whose innovative products and services are in demand worldwide. In the history of ETH, many well-known scientists and 21 Nobel Prize winners are associated with this school. 24,400 students, including 4,320 doctoral students, from over 120 countries are matriculated in 16 departments of various technical and scientific disciplines.

Contact Information

Secretariat of the conference:

- Tel: +41 44 632 78 81
- eMail: ictimt2025@ethz.ch

Further information on the conference can be found at:
<https://ictimt2025.ethz.ch>

Conference fee (exklusive 8.1% VAT)

		before <u>31.03.2025</u>	after <u>01.04.2025</u>
• Normal	CHF	750	850
• Speakers / Students	CHF	350	400



Topics

The conference covers but is not limited to the following topics:

- Thermal simulation of machine tools
- Thermal compensation and correction of machine tools and other production machinery
- Artificial intelligence used and useful against thermal issues of machinery
- Testing and simulation methods to identify thermal errors
- Reference workpieces and assessment
- Energy efficiency of machine tools
- Improving thermal robustness of machine tools through design modification
- Thermo-energetic optimization of machine tools
- Simulation and measurement of heat release from manufacturing processes

Submission of contributions

Authors are invited to submit an abstract in English with a maximum of 500 words. The short version may not contain any images. The title of the article, the names of the authors and their employment, telephone number, correspondence address and email address must be submitted along with the abstract.

The abstract must be submitted until **December, 20th 2024** via the following website: <https://ictimt2025.ethz.ch>

All manuscripts are scientifically assessed by experts. The evaluated contributions will be published in CIRP Procedia or similar

Important dates:

- Submission of abstract: December, 20th 2024
- Acceptance of abstract: January, 15th 2025
- Submission of full paper: February, 15th 2025
- Review-information and acceptance of papers: March, 15th 2025
- Final announcement of program: March 30th 2025
- Submission of final paper: April, 15th 2025
- ICTIMT2025 Zürich: June, 17th – 19th 2025

Scientific Committee (preliminary)

Dr. Gorka Aguirre, Ideko, Spain
Prof. Dr. Andreas Archenti, KTH Stockholm
Prof. Dr.-Ing. Markus Bambach, IWF am|z, ETH Zürich
Prof. Dr. Friedrich Bleicher, IFT, TU Wien
Prof. Dr.-Ing. Christian Brecher, MIT, RWTH Aachen
Prof. Dr. Erhan Budak, Sabanci University Turkey
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Prof. Dr.-Ing. Berend Denkena, IFW, Leibniz-Universität Hannover
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Prof. Dr. Alkan Donmez, NIST
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Dr. Mathieu Ritou, University de Nantes
Prof. Dr. Scott Smith
Prof. Dr.-Ing. Masakazu Soshi, UC Davies
Prof.em. Dr.-Ing. Konrad Wegener, ETH Zürich/inspire AG
Prof. Dr.-Ing. Matthias Weigold, PTW, Darmstadt
Prof. Dr. Rafael Wertheim
Prof. Dr.-Ing. Michael Zäh, IWB, TU München