Sustainability and High Performance in Machining
October 25th-28th 2023 Nanjing, China

Third Announcement

www.highspeedmachining.org
Email: hsm2023@nuaa.edu.cn

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About HSM Conference

The International Conference on High Speed Machining (HSM Conference) was initiated in Germany, France, Spain and has been successfully held in Europe and China for more than 20 years. The HSM conference has been a CIRP sponsored conference with an aim to promote academic exchange and technological development of high speed machining. The 17th International Conference on High Speed Machining (HSM2023) will be held in Nanjing, China, from October 25th - 28th, 2023, organized by Nanjing University of Aeronautics and Astronautics (NUAA). The HSM2023 will establish a platform for scientists and engineers to exchange new ideas, share latest results and experiences, as well as discuss hot spots of researches in the field of high speed machining and related advanced machining technology.

In recent years, China has become one of the biggest manufacturing markets in the world, where high speed machining technology has become the hottest research tendency in the field of manufacturing which in turn, has been applied widely in industries. The HSM2023, to be held in the most well development area of China, will provide not only an exchange platform, but also an opportunity to touch the biggest research and application markets of manufacturing technology. If international travel is still limited by COVID-19, the conference will be a hybrid event, enabling in person attendance and virtual participation.

Topics

HSM2023 focuses on sustainable high performance machining and additive technology, tools and production machines:
- Cutting tools, cutting processes, abrasive processes, cutting conditions and their optimization
- Cutting process simulation and virtual machining, digital twin for cutting processes
- Sustainable machining
- Machining strategies for high productivity
- Machining of difficult-to-cut materials
- Machinability of materials after additive / casting / forming processes
- Intelligent machines and intelligent manufacturing, monitoring of technological processes
- Sensor and actuator integrated tooling systems
- Design, modeling, optimizing, testing and diagnostic of machines for machining, additive and hybrid processes
- Vibrations in machining, machining dynamics and chatter avoidance
- Thermal behavior of machine tools, production process as a source of thermal load
- Precision and ultra precision machining and machines
- Grinding of composites materials
- Micro machining, tools and machine tools
- Digitalization in future machining
- Hybrid manufacturing – subtractive and additive processes in one working space
- Diagnostics and measuring, experimental approaches in machining

Industrial case studies related to the above-mentioned topics

The papers selection will be made on the basis of extended abstracts. Prospective authors are invited to submit a manuscript of 6-8 pages in English, preferably including figures and tables, to the Conference Secretariat by e-mail (Word format). Welcome to submit full paper to HSM email box - hsm2023@nuaa.edu.cn (before May 31st, 2023).

Publication

All the papers which accepted by 17th HSM will be included in electronic proceedings. Part outstanding papers recommended could be published on Transactions of Nanjing University of Aeronautics & Astronautics (English Version EI indexed).

Notice: Due to the unpredictable COVID situation, HSM 2023 may be held as an online and offline event.
**Organizing committee**

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Guolong Zhao, NUAA  
Xiqiong Hao, NUAA

**Conference fee**

The early registration (before Sep. 1st, 2023):  
fee is EUR320/RMB2400 (20% off for students).  
The late registration (after Sep. 1st, 2023):  
fee is EUR350/RMB2800 (20% off for students).

**Venue**

Nanjing, located in the most economically developed Yangtze River Delta in eastern China, has a prominent place in Chinese history and culture. It is recognized as one of the Four Great Ancient Capitals of China. Meanwhile, as a modern city, Nanjing has long been a national center of economy, education, research, transport networks and tourism. Nanjing is named “City of Literature” by UNESCO and also wins the honorary title of Special UN Habitat Scroll of Honor Award. Currently, there are 68 colleges and universities in Nanjing. Meanwhile, it is also an important scientific research center. In the ranking of global scientific research cities, Nanjing ranks eighth in the world and third in China.

**Key Dates**


**Conference secretariat**

**Secretary:** Dr. Ni Chen; Ms. Weiyi Yuan  
Prof. Yinfei Yang; Prof. Guolong Zhao; Prof. Xiaqiong Hao  
Nanjing University of Aeronautics & Astronautics  
Yudaoh Street 29th, Nanjing, P.R.China, 210016  
Tel: 86-025-84893567; Fax: 86-025-84891501  
Email: hsm2023@nuaa.edu.cn

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**Scientific committee**

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- Prof. M. Zah, Germany  
- Dr. P. Zeman, Germany  
- Prof. B. Zhang, Czech Republic

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