

The 5th International Symposium on Thermal-Fluid Dynamics

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● ABOUT ISTFD

The 5th International Symposium on Thermal-Fluid Dynamics (ISTFD 2024) will be held in Xi'an, China on 26-29 July 2024, and is organized by State Key Laboratory of Multiphase Flow in Power Engineering of Xi'an Jiaotong University. ISTFD2024 will continue the increasingly important mission of fostering international cooperation and the exchange of ideas covering the recent research advances and exciting research outcomes in the field of thermal-fluid dynamics.

● OBJECTIVE

Thermal-Fluid Dynamics is the fundamental to a wide range of engineering subjects. It plays a key role in the development and breakthrough of scientific theories, innovative technologies and revolution of industry and human society systems. ISTFD2024 will covering a wide spectrum from fundamental research to industrial application, with topics including but not limited to:

- **Topic1: Advanced low-carbon/green energy and power conversion systems**
- **Topic2: Multiphase Flow and Heat Transfer**
- **Topic3: Reaction Multiphase Flow**
- **Topic4: Micro/nano-scale thermos-fluidics**
- **Topic5: Droplet, Bubble and Particle Dynamics**
- **Topic6: Machine Learning and AI in Thermal-Fluid Dynamics**
- **Topic7: Computational Methods in Fluid Flow and Heat Transfer**
- **Topic8: Measurement and Experimental Techniques**
- **Topic9: Energy Storage Systems and Carbon Neutrality**
- **Topic10: Hydrogen Storage and Transportation**
- **Topic11: Bionic science in Thermal-Fluid Systems**
- **Topic12: Biological and environmental flows and heat transfer**
- **Topic13: Flow-induced Vibrations, Thermal and Flow Control and Enhancement**
- **Topic14: Thermal Management in Emerging Technologies**
- **Topic15: Industry Problems and Applications**

● ABSTRACTS AND PAPERS

ISTFD-2024 abstracts should be submitted to istfd@mail.xjtu.edu.cn before 15 April 2024. A submission should include an abstract and short biography (of its presenter) and prepared using MS Words with the template. Special Issues will be published in SCI index journals: **Heat Transfer Engineering & International Journal of Heat and Fluid Flow**. The manuscripts will undergo a full peer review and authors will be notified the publication procedure and schedule.

● DATELINES

- **June 20 , 2024**
Abstract submission deadline
- **June 30 , 2024**
Early-bird registration deadline
- **July 1-26 , 2024**
Regular registration

● ORGANIZING COMMITTEE

- **Honorary Chair**
Prof. Tassos G. Karayiannis
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