

Announcement of an Upcoming Book

Topic: AI-Enabled Computational Fluid Dynamics: Methods, Models and Applications

Dear Colleague

This letter is an invitation to contribute to the forthcoming book by Springer on the topic of AI-Enabled Computational Fluid Dynamics: Methods, Models and Applications. In addition to invited contributions, this book will include selected chapters in fluid dynamics by international researchers from different research groups across the world. This book highlights the current trends in the modelling and simulations aspects of artificial intelligence and fluid dynamics. Even though modelling and simulations in fluid dynamics are now considered as a mainstream in analyzing fluid flows, heat and mass transfer problems, researchers are still exploring various AI-based numerical methods to achieve better accuracy and efficiency for challenging applications in renewable energy, aerospace, biomedical, and other related industrial engineering applications. The aim of AI-Enabled Computational Fluid Dynamics is to bring much of the diverse modelling and simulations tools into one book and to advance existing progress in the emerging sciences of fluid dynamics. The book will summarize current mathematical and physical modelling approaches as well as computational techniques applicable to fluid dynamics. We believe that this book will be of interest to a wide range of academic, government and industrial researchers interested in the modelling and numerical simulations of fluid dynamics.

You are well-respected as a leader in this field and potential contributor who has developed research in the past in this area. We would be grateful to have your contributed chapter relevant to this topic for publication in this book. Please also forward this announcement to other researchers you know who may also be interested in submitting a chapter for this book. To insure the high quality standard, all chapters submitted will undergo the usual and rigorous peer review process. The accepted chapters will be published online (with DOI) immediately after acceptance. The printed issue will be published upon accumulation of a sufficient number of accepted chapters. Please find here a tentative timeline for this issue:

<u>Date</u>	<u>Tentative timeline</u>
Early April, 2026 – late June, 2026	Invitations will be sent to the authors identified
July 30, 2026	Invited authors are requested to accept or decline the invitation
August 1 st – Oct. 30 th , 2026	Submission of invited chapters to any editor with below subject: Chapter type: AICFD
Nov. 1 st , 2026 – January 2027	Peer review process and acceptance notification
June 2027	Printed book published

We believe this book will make a significant contribution to the community by identifying and discussing the open problems in modelling and simulation of fluid dynamics, and we are hoping we can count on your participation to realize this potential.

Please contact us via e-mail to accept/decline the invitation by **August 30, 2026** and for further inquiries.

With the very best regards

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