



Computational Fluid Dynamics (CFD) Simulations for Fusion Reactors

Guest Editor:

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Message from the Guest Editor

In this framework, it will be critical to develop computational tools including the most advanced scientific knowledge and, at the same time, compliant with industry-standard software quality criteria. Such a process is currently starting. We hope that this Special Issue will help to bring together experiences and points of view on the development of CFD software for the upcoming generation of fusion devices, and to stimulate constructive discussion and collaboration among researchers in the field. The issue will focus on the following topics:

- Turbulence models in CFD codes for fusion applications;
- Software quality assurance in CFD codes in the fusion community;
- Validation of fusion computational models and benchmark with experimental data;
- Application of artificial intelligence techniques in connection with CFD software;
- Inter-relation with non-standard CFD techniques (Monte Carlo, particle in cell, gyro-kinetic, etc.);
- Prediction of a fusion reactor environment: what can be done and what is still missing.





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Message from the Editor-in-Chief

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