



Computational Heat Transfer and Fluid Dynamics

Guest Editor:

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Deadline for manuscript
submissions:

closed (31 March 2023)

Message from the Guest Editor

This Special Issue focuses on current advances in computational heat transfer and fluid mechanics. With the development of high-speed computer technology, complex fluid flow and heat transfer problems can be solved numerically with high accuracy. This Special Issue of *Axioms* is devoted to both the practical application of existing methodologies and models and the presentation of new numerical methods.

The topics of interest for the Special Issue include (but are not limited to):

- Convective heat transfer in single-phase and multiphase flow;
- Flow/heat transfer mechanisms in the microscale;
- Active and passive cooling systems in electronics and power engineering;
- Multiphase flow theory in porous and fractured reservoirs;
- Enhanced oil/gas recovery;
- Bio-heat transfer;
- Supersonic/hypersonic flows;
- Gas turbine heat transfer;
- Thermal radiation heat transfer in energy systems.

