



Reduced Order Models for Computational Fluid Dynamics

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Message from the Guest Editor

Many different types of reduced order have been developed over the years, and a possible distinction is between those that are intrusive and require the knowledge of the underlying full order model and those that are merely data-driven and therefore non-intrusive. In the first category fall the reduced-basis method, the POD-Galerkin approach, and the proper generalized decomposition. In the second category, one can find truncation-based methods, dynamic mode decomposition, neural networks, and in general all the models based on just input–output data. Possible applications include but are not limited to uncertainty quantification, inverse problems, real-time control, shape optimization, etc.

This Special Issue will publish original research, overviews, and applications on reduced-order models for computational fluid dynamics of both the intrusive and non-intrusive type.





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Message from the Editor-in-Chief

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