

## Preface

### *Special Issue on “Advances in High-Order Methods & Reduced-Order Methods”*

The organization of such a special issue is largely spawned by the minisymposium on the same topic at the 20th IMACS World Congress, which was held December 10-14, 2016 in Xiamen, China. The papers collected herein and in the next issue are part of the presentations delivered in the conference and also courtesy contributions from research experts in two interwoven fields related to high-order methods and reduced-order methods.

The twelve papers in two consecutive issues span a wide spectrum of these computational methods in terms of new algorithms, in-depth analysis and emerging applications. These particularly include some recent developments in spectral/spectral-element methods and POD techniques, among others. We aim at providing the readers some insights into the recent advancements through these two issues.

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