
Preface

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Biographical notes: Dia Zeidan is currently an Associate Professor in the School of Basic Sciences and Humanities at the German Jordanian University, Amman, Jordan. His expertise is in the mathematical modelling and numerical simulations of multiphase fluid flow problems. His recent work also includes hyperbolicity and conservativity resolution related to two-phase flows equations in the context of the Riemann problem and simulations of such flows over a wide range of non-equilibrium behaviours.

Eric Goncalves is a Professor in the Aeronautical Engineering School ISAE-ENSMA, Poitiers, France. Currently, he is the Head of the Department Fluid Mechanics and Aerodynamics. His research interests are related to the modelling and the simulation of flows for which the density is variable such as compressible flow, two-phase flow and cavitation. His recent works include shock wave boundary layer interaction, thermal effects in cavitation and investigation of three-dimensional effects on cavitation pocket.

The International Conference on Thermal Engineering Theory and Applications (ICTEA) is organised every year by Ryerson University, Canada in a different venue of the developing world known for its activities in the field of computational and applied sciences and engineering. This conference is an excellent chance for scientific exchange for the developing world researchers from academia and industry meet with international scientist from different academic and research centres across the world.

The 10th ICTEA 2017 was held in Muscat, Oman in collaboration with Sultan Qaboos University. ICTEA 2017 included 80 oral presentations and posters along with six keynote lectures given by distinguished computational engineering and sciences experts. The conference chairperson M. Ziad Saghir of Ryerson University, Department of Mechanical and Industrial Engineering, is thankfully acknowledged the impressive and perfect organisation, as well as through editing the book of proceedings following a very successful conference provided by Sultan Qaboos University.

Papers accepted and presented during ICTEA 2017 were invited to submit a full length paper in a call to a special issue of the *International Journal of Aerodynamics* of Inderscience publishers. Six of the 80 papers submitted to *IJAD* were accepted.

The organising committee of ICTEA conference series and the guest editors hope that this special issue will offer researchers with many stimulating vision into recent advances in thermal engineering theory and applications and related themes, and to help in research exchange between different countries. The guest editors are very grateful to the *International Journal of Aerodynamics* for their kind support on publication of this special issue. The editors also would like to thank the referees who helped to review the papers in this special issue of ICTEA 2017 and Inderscience Publishers (UK).