
Preface

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This special issue in the *Progress in Computational Fluid Dynamics, An International Journal (PCFD)* consists of selected papers from the third Asian Symposium on Computational Heat Transfer and Fluid Flow (ASCHT2011) chaired by Prof. Hiroshi Kawamura of Tokyo University of Science, Suwa, held from 22 to 26 September, 2011 at Kyoto University, Japan. As the two preceding symposia in Xi'an, China (2007) and Jeju, Korea (2009), the ASCHT2011 successfully attracted 169 delegates from a wide variety of countries: China, India, Iraq, Japan, Korea, Russia, Taiwan and UK (in alphabetical order). The ASCHT2011 was mainly operated by Heat Transfer Society of Japan, as one of her 50th anniversary events, and was cooperated by International Centre for Heat and Mass Transfer (ICHMT), The Kyoto University GCOE: Energy Science in the Age of Global Warming, and The Heat Transfer Society of Japan, Kansai Branch.

The authors of selected papers from the symposium proceedings, which contain 123 contributed papers (chosen from 188 extended abstracts), were invited to expand and revise their symposium manuscripts to meet the criteria of the journal publications. After the standard review procedure of the *PCFD*, ten papers were selected for this special issue. We believe that these selected papers reflect the flavour of this symposium of which aims were to exchange ideas and knowledge in recent advances on various aspects in theoretical and engineering fluid and thermal sciences.