Preface

The Seventh International Conference on Flow Dynamics, ICFD2010, was held on November 1st to 3rd, 2010 at Sendai, Japan. This conference was sponsored by Global COE Program: World Center of Education and Research for Trans-disciplinary Flow Dynamics, in cooperation with the Japan Society of Mechanical Engineers (JSME), International Center for Heat and Mass Transfer (ICHMT) and other organizations. The ICFD2010 was held in the largest scale in the ICFD history with a total of 749 participants including 241 overseas guests from 22 countries and regions. Totally 412 papers were presented together with three plenary lectures.

“Flow dynamics” is a comprehensive scientific field which deals with the flow and transport phenomena concerning to fluids, materials, energy and information. We expect that the science and technologies related to flow dynamics will be important for harmonious Co-existence and Symbiosis of the earth and its living lives.

The special issue consists of 11 papers selected from the above conference papers, which have reached a high quality level through the review process of JTST. We would like to express our sincere appreciation to the reviewers of papers as well as the GCOE office for their effort to publish this special issue.

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