

Preface

Recent development of flow visualization



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It is our great pleasure to publish the Journal of Visualization Volume 7 Number 1 to all of our reader in the world. This Journal aims at an interdisciplinary imaging science devoted to making the invisible visible through the techniques of experimental and computer-aided visualization. Recent development of flow visualization technique also contributes to the quantification of such invisible phenomenon in experimental field, that is the measurement of scientific physical properties of heat and fluid flows in engineering and scientific field.

In the present issue of Journal of Visualization, we are happy to present some recent developments of experimental and computer-aided techniques. The first 6 papers are invited papers from The third Japan-Korean Joint Seminar on PIV at Fukuoka (2002-12), which deals with the recent developments in particle image velocimetry (PIV), laser-induced fluorescence (LIF) and pressure sensitive paint (PSP). These experimental technique allows the multi-points measurement of velocity, concentration and pressure in the field of interests and they are visualized in beautiful color pictures. The remaining 4 papers are researching into the unique engineering topic using the experimental and computer-aided flow visualization techniques, which allows deep insight into the invisible phenomenon of fluids and acoustic fields of interests. All of these articles contribute to the new development of visualization in engineering and scientific field in the world. We acknowledge all the authors, reviewers, and related people, who have made great efforts for publishing this issue possible.

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