Preface

Widely Applicable Colorful Images to New Trend


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We are pleased to present Journal of Visualization Volume 9 Number 2 to all our readers around the world. JOV is a full-color publication covering a wide variety of visualization fields and has earned respect from the international academic community for its role as a full-color journal in this rapidly advancing field. Recently, interdisciplinary researches among science, technology, arts, and literature become popular widely, which leads to holding some international conferences. A field called "Science & Art" is not exception. The typical subjective field needs an objective method for the external estimation. Visualization techniques such as optical method, computational and digital science and technology are surely powerful tools. The trend has aimed to raise public awareness about artists and scientists using visualization techniques to explore new forms of creative expression. JOV is able to contribute to the "Science & Arts" with the variegated information and the technology.

In this issue Number 2, JOV meets new challenges reported by one short paper, nine contributed full papers, and a report on the Eighth International Symposium on Fluid Control, Measurement and Visualization (8FLUCOME). The visualization techniques presented herein include the latest advances such as liquid crystal coating, pressure sensitive paint, infrared thermography, planar imaging technique, color image segmentation, stereoscopic imaging, and particle image velocimetry. Moreover, the fundamental and academically phenomenon with the visualization techniques presents shear-stress measurement, low speed jet flow, Benard-cell convection, fuel mass distribution, estrus detection, flame/vortex interaction, and compact vision. The results obtained by these techniques are presented as colorful visualizations in many dimensions, making full use of current computing technologies. The last three papers are applied PIV techniques with stereo reconstruction, micro-PIV, and time-resolved PIV. All of these articles can be viewed in their full-color entirety. We hope you enjoy this issue, and would like to ask you to join us in extending our appreciation to all the authors and related staff that has made this issue possible.

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