

Preface

Flow Visualization in the New Millennium



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We are surrounded with all sorts of flows. For example, when we move, the air moves and creates a flow. Even when we are lying down, airflow is created around us due to temperature differences. Blood moves in our body. The flows are such familiar things to us, but yet we don't pay much attention to how it moves and interacts. It is just recent that we are becoming to understand its physics because of recent advancement in flow visualization techniques. Invisible flows have become possible to be measured by techniques such as LDV (Laser Doppler Velocimetry) or PIV (Particle Imaging Velocimetry). In addition, the recent computer technology and computational simulation techniques have made possible to capture the details of flow characteristics and also to visualize the flow behavior using computer graphics.

In order to provide better understanding of the fluid and thermal engineering, the Journal of Visualization has covered a wide range of current researches since the first issue was published in 1997. The journal has been also emphasizing on quality of paper contents as well as quality of visualization by publishing all papers and frontispieces in full colors. This issue presents a total of seven selective papers and six frontispieces.

On behalf of managing editors, I would like to express my sincere appreciation to all authors, reviewers, and people who help the journal to become more valuable. In the new millennium, the flow visualization will continuously play an important role in various fields. I believe that the Journal of Visualization will continuously contribute to advancement of flow visualization.

Managing Editor

Marie Oshima