

## Preface

### **Trends in Optical Diagnostics and Image Processing**



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A technique that integrates optics, colorimetry, and image processing makes the complicated, three-dimensional, and time-dependent flow fields visible, and during the past two decades, this technique has emerged to be powerful together with the development of computer technology and laser techniques. Considering those current situations, International Conference on Optical Technology and Image Processing in Fluid, Thermal, and Combustion Flow was successfully held in Yokohama in December, 1998, sponsored by VSJ, the Visualization Society of Japan and SPIE, the International Society for Optical Engineering. The primary objective of the conference was to provide a forum to discuss the most advanced research work on optical and imaging techniques used widely for fluid, thermal and combustion flows developed and proposed in various fields. In the conference, ten plenary and keynote lectures on the latest topics motivated us strongly to pursue future works.

The present bound volume is the special issue of the selected papers of the VSJ-SPIE Conference. The papers are accompanied with impressive and beautiful pictures and figures which provide us important suggestions and premonitions for future research works. We would like to express our thanks to all authors of impressive papers, reviewers and program advisory committee members. We especially acknowledge the devoted support of Professor Nobuyuki Taniguchi which made this bound volume possible.

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