

Preface

In Prospect of the Development of PIV Research



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Particle image velocimetry (PIV) is a non-intrusive method to measure whole velocity fields in flows within a very short time interval.

In the field of fluid mechanics, PIV is one of the most recent techniques since the middle of 1980's. Due to the progress in the computer science, electronics and optics, PIV technique has been developed in a wide range of areas from research and development to industrial applications. A large number of research investigations and industrial applications are reported in the recent conferences and symposiums. The 8th International Symposium, held in Sorrento in September of this year, included not only three sessions but also two keynote lectures on PIV technique. The VSJ-SPIE conference on optical technology and image processing in fluid, thermal, and combustion flow will be held in Yokohama in December 1998, and will present a number of papers on PIV. In addition to those conferences, workshops specialized in PIV have been also organized. The First and the Second International Workshops on PIV were held successfully in Japan and the third one is planned to be held in USA in September, 1999. Considering the current situation, it is quite significant to organize the special issue of the PIV technique. The issue consists of the selected papers from the Second Workshop on PIV'97-Fukui. I would like to express my sincere appreciation to the authors, reviewers and the organizing committee members of the workshop.

Managing Editor

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