

Preface

This volume contains a collection of 18 papers presented at the 4th International Workshop on Complex Systems. This workshop was sponsored by Institute of Fluid Science, Tohoku University, Japan. It was held at Sendai City, Japan, from 10 to 12 January 2007. A total of 22 participants, including 8 participants from 3 foreign countries, such as Germany, Korea, and the United State, attended the meeting, exchanging their scientific experiences. The main topics of this meeting were as follows:

- I. Complex Fluids
- II. Glass Transitions
- III. Structure and Patterns
- IV. Cross Disciplinary Physics

In addition to the 10 fifty-minutes invited talks, the program consisted of 7 poster presentations and 4 thirty-minutes contributed talks.

The main purpose of this workshop is to provide an opportunity for an international group of experimentalists, theoreticians, and computational scientists, who are mainly working on complex systems, to gather together and discuss their recent advances, and thus to find a new perspective towards further developing statistical physics. Another important aspect of the meeting is the presence of Japanese graduate students. The meeting was very lively and enjoyable. Especially, the discussions among experimentalists, theoreticians, and computational scientists were interesting and effective. I believe that these proceedings reflect at least partially the atmosphere of this meeting. The workshop was very successful in broadening and deepening the relationships between scientists of different countries. I hope that the success of the meeting in training young scientists and establishing contacts among leaders in the scientific field will enable us to hold this workshop every year.

On behalf of the organizing committee, I would like to thank all the participants for their efforts to make their presentations of the highest quality. My thanks are also due to Dr. Toshiaki Ikohagi, Director of Institute of Fluid Science, for carrying the financial burden and providing the conference rooms and facilities.

Last, but not least, I wish to thank Mr. Taku Kudo, Ms. Yayoi Terada, and Ms. Saiko Yumura, and all the others who took such good care of the many chores that had to be done for the smooth operation of the Workshop.

Michio Tokuyama
Responsible Editor,
Chairperson of International Workshop on Complex Systems

Sendai, Japan
January 2007