

Preface

The RIMS workshop “Topology optimization theory and applications toward wide fields of natural sciences” was held at the Research Institute for Mathematical Sciences, Kyoto University from 7 to 9, May, 2014. The aim of this workshop was to overview recent developments of Shape optimization and Hydrodynamics Stability and to discuss its related applications together with pure mathematicians, applied mathematicians, physicists, engineers and more medical doctors. The organizers yearned for further developments of multidisciplinary researches created based on the workshop.

The present volume is the collection of papers submitted by speakers of the above workshop. All papers have been reviewed and are in their final forms.

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