Preface

This volume of the journal “Defect and Diffusion Forum” presents to readers the next 9th special issue from the series “Transfer Phenomena in Fluid and Heat Flows” which contains articles covering theoretical and practical aspects of modeling and numerical investigation of the diffusive convection and magnetohydromagnetic mixed convective flows, heat transfer phenomena in different media and engineering objects, solving other engineering problems related to heat and mass transfer phenomena.

The presented results are of great importance in the study of different convective phenomena, processes of fluids motion in the various media and also for practical designing and using in the field of modern micro- and nanoelectromechanical systems for the technical and biomedical use, for the designing various chemical and pharmacological technologies and cooling systems of components and devices, and for solving many other engineering problems related to heat and mass transfer phenomena.

We hope that our special issue will be very interesting and useful for a wide audience of researchers and engineers from area of applied heat and mass transfer.

We would like to thank all who participated in the collecting of this special issue, authors for their valuable contributions and reviewers for their reports and important comments.

Dr. Stanislav Kolisnychenko

Editor