Preface

This volume of the journal “Defect and Diffusion Forum” presents a special thematical issue: “Processes of Heat and Mass Transfer in Engineering Flows”. The collection contains peer-reviewed articles covering theoretical and practical aspects of modeling and numerical investigation of the diffusive convection and magnetohydrodynamic mixed convective flows, heat transfer phenomena in the various 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 macro-/micro- and nanoelectromechanical systems for the technical and biomedical use, for the designing different 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 interesting for a wide audience of researchers and engineers in the area of applied use of the processes of heat and mass transfer in the different engineering systems and objects.

We would like to thank all who participated in preparing this special issue, authors for their valuable contributions, and reviewers for their reports and essential comments.

Dr. Stanislav Kolisnychenko,
Editor