

PREFACE

This special issue contains a collection of works of mathematicians actively working in the field of applied aspects of contemporary analysis and optimization theory. It is worth noting that a significant part of these papers is devoted to the study of various problems in the theory of differential inclusions. It looks quite natural, since it is well known that differential inclusions provide in modern mathematics a powerful and convenient tool for the investigation of a wide variety of control and optimization problems. Notice that the classes of differential inclusions presented in the collection are very diverse: we can mention fractional, integro-differential, functional differential, semilinear, stochastic, impulsive differential inclusions, and sweeping processes.

We also hope that the reader will find interesting the works of the collection on the regularization of dynamical systems, constrained problems and minimax theorems.

Valeri Obukhovskii, Irene Benedetti, Tran Dinh Ke