Optimal Control Theory

Guest Editor:

Prof. Dr. Ellina Grigorieva
Department of Mathematics and
Computer Science, Texas
Woman's University, Denton, TX
76204, USA

Deadline for manuscript
submissions:
closed (30 November 2020)

Message from the Guest Editor

This Special Issue will gather research regarding research focused on the development of novel analytical and numerical methods for solutions of optimal control or of dynamic optimization problems, including changing and incomplete information about the investigated objects, application to medicine, infectious diseases, and economic or physical phenomena. Investigations of new classes of optimization problems, optimal control of nonlinear systems, as well as the task of reconstructing input signals are invited. For example, we are interested in papers that develop new algorithms to implement some of the principles of regularization using constructive iterative procedures or in papers that create an optimal control model that can accumulate experience and improve its work on this basis or the so-called learning optimal control system. The applied papers focused on control models of economic, physical, medical (i.e., infectious diseases) or environmental processes or resource allocation on the specified time interval or on the infinite planning horizon would be of special interest.

mdpi.com/si/52167

Special Issue