## **On Some Optimal Control Problems**

## Marilena Ciontescu

Faculty of Applied Sciences, National University of Science and Technology POLITEHNICA Bucharest, Bucharest, Romania

## **Abstract**

In this study some generalizations of the invexity notion and their applications to optimization and control theory have been established. We investigate the solutions for a class of optimal control problems under interval-valued generalized invexity assumptions for the involved functionals. Necessary and sufficient optimality conditions have been established for the considered class of optimization problem.