

Abstract:

"On Some Methods to Derive Necessary and Sufficient Optimality Conditions in Vector Optimization"

(Joint work with M. Durea and R.Strugariu)

(Abstract: The aim of this talk is to address new approaches, in separate ways, to necessary and, respectively, sufficient optimality conditions in constrained vector optimization. In this respect, for the necessary optimality conditions that we derive, we use a kind of vectorial penalization technique, while for the sufficient optimality conditions we make use of an appropriate scalarization method. In both cases, the approaches couple a basic technique (of penalization or scalarization, respectively) with several recent results in variational analysis and optimization. These combinations allow us to arrive to optimality conditions which are, in terms of assumptions made, new.)