

Dedicated to Professor Ion PĂVĂLOIU on his 60th anniversary

A characterization of the efficient solutions of multiobjective optimization problems by means of a scalar problem

Alina Curşeu

Abstract

A useful way to characterize the efficient solutions of multiobjective optimization problems is to refer to the optimal solutions of a scalar optimization problem derived from the multiobjective problem. We use this approach to give some characterizations of the efficient solutions. We also present a sufficient condition for an optimal solution of the scalar problem to be an efficient solution of the multiobjective problem.