Analele **Univ**ersității **București**, **Mat**ematică Anul LVII(2008), pp. 285–291

On approximate solutions in multiobjective optimization

Eugenia PANAITESCU, Liliana DOGARU

Abstract - In this paper we give necessary and sufficient conditions for the ε -quasi weak efficiency, two necessary conditions for the ε -quasi proper efficiency and two sufficient conditions for ε -quasi efficiency in multiobjective optimization. No assumption of any convexity is made in this paper and the discussion is carried out in a very general framework. The results generalize the corresponding ones in Kaliszewski (1995), Li and Wang (1991).

Key words and phrases : Multiobjective programming, optimization, approximate solution.

Mathematics Subject Classification (2000): 90C29, 90C30, 49M37.