On approximate solutions in multiobjective optimization

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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).