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Nonlinear scalarization characterizations of approximate solutions in multiobjective optimization. (Chinese. English summary) [Zbl 1399.90248]

Summary: In recent years, study on the scalarization characterizations of approximate solutions has become one of the most important research fields for multiobjective optimization problems. By means of a kind of generalized Chebyshev norm scalarization method for multiobjective optimization problems, some nonlinear scalarization results of \( \varepsilon \)-weakly efficient solutions and \( \varepsilon \)-properly efficient solutions are obtained. The main results generalize some known works.

MSC:
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Keywords:
multi-objective optimization; nonlinear scalarization; \( \varepsilon \)-properly efficient solutions; \( \varepsilon \)-weakly efficient solutions

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