

Weighted Scalarization Related to L_p -metric and Pareto Optimality

Alexandra Šipošová

Abstract: Relations between (proper) Pareto optimality of solutions of multicriteria optimization problems and solutions of the minimization problems obtained by replacing the multiple criteria with L_p -norm related functions (depending on the criteria, goals, and scaling factors) are investigated.

Keywords: multicriteria optimization; (proper) Pareto optimality; scalarization; L_p -norm;

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