

secondary planning problem fails, the negative gradient of the value function is used as the search direction. We also show that the algorithm converges to the approximate Pareto frontier for the multiobjective constraint optimization problem under several basic assumptions. By solving the above different types of problems, we find that the MOSQP algorithm proposed can be effectively solved for nonlinear function constraint optimization, high-dimensional boundary constraint optimization, non-convex in Pareto front, and non-continuous multi-objective optimization in Pareto front. And the improved MOSQP is better than the MOSQP (F) algorithm and NSGAI in the number of non-dominant solutions in the Pareto front. The divergence index is inferior to NSGAI, but the MOSQP (F) algorithm has different problems.

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