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Mixed integer linear programming for quality of service optimization in Clouds

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*Highlights (for review)

HIGHLIGHTS

- Optimization of four Cloud Quality of Service objectives
- Formulation of a multiobjective virtual machine allocation problem through a mixed-integer non-linear program
- Proposition of a heuristic based on a mixed-integer linear programming decomposition
- Multiobjective comparison between the MILP-Decomposition and a Genetic Algorithm
- Multiple results analyzes : solution time, hypervolume, lexicographic order and optimization quality of the QoS metrics

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