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Title: Hybrid Metaheuristics and Multi-agent Systems for solving Optimization Problems: a review of frameworks and a comparative analysis

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## Highlights

- A review concerning frameworks for solving Optimization problems using metaheuristics;
- A comparative analysis between frameworks for solving Optimization problems using metaheuristics;
- Identify gaps in the characteristics necessary for the development of frameworks for optimization using metaheuristics;
- A special focus on the use of multi-agent structures in the development of hybrid metaheuristics.
- Multi-agents structures as the central role of this revision, perspective of analysis not yet addressed in the literature.

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