

Improved tabu search

February 20, 2017

Mashinchi et al. (2011) propose an improvement of the tabu search method.

Questions

1. Explain the tabu search method and compare it to at least two other metaheuristic methods. Explain the advantages and shortcomings of these algorithms. Give example of real-life problems where metaheuristics have been successfully used. Why these problems?
2. Implement the tabu search method and compare it on an artificial example to another known method. Explain the modifications proposed by Mashinchi et al. (2011). Do you think these would improve the results?

References

Mashinchi, M. H., Orgun, M. A., and Pedrycz, W. (2011). Hybrid optimization with improved tabu search. *Applied Soft Computing*, 11:1993–2006.