Neighborhood-based metaheuristics for the SCP

Deadline: 30/10/24

Design and implement two neighborhood-based metaheuristic algorithms for the SCP Consider which are the main features that have to be defined for the various methods we have seen in the lectures and define accordingly these algorithms.

Design a comprehensive set of computational experiments to show the influence of the parameters and building blocks of your algorithm in both the effectiveness and efficiency of your approach.

Prepare a final report, in the format of a paper (maximum 15 pages), explaining the whole approach that you have applied for the SCP. Prepare a ppt (max.10 slides) to be presented in the class.

Both documents, the spreadsheet and textfile of the raw data that were used for statistical testing, and the source code of the implementation should be sent to [almada.lobo@fe.up.pt](mailto:almada.lobo@fe.up.pt) up to 30/10/24.