

General Conclusion

This final project study represents our second experience in the professional world. The aim of our project is about finding upgraded results for an optimization problem that is considered as an NP-hard problem.

For the sake of obtaining better results for a minimum weight dominating set (MWDS) problem with improved greedy heuristic, was like a challenge that we accepted to dare ourselves and accomplish it.

The thesis were divided into four parts, where each part was specified to talk about an important point to explain the study purpose, the first part was about the Optimization problem, the second about the MWDS, the third about the greedy paradigm and finally in the last part we showed the experimental results of our work .

As shown in the fourth chapter the improved heuristics gave us better results for the MWDS problem and we are looking further to find better-improved heuristics that will lead us to an optimal solution for this problem.