

Chapter 5

Conclusions

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This thesis introduced four methods for solving multi-objective transportation problem. We can conclude that Pareto-based approach is relatively better than the interactive II approach. Also, the Pareto-based approach is highly better than the interactive fuzzy goal programming approach and fuzzy programming approach. On the other hand, the interactive fuzzy goal programming approach is relatively better than the interactive II approach and fuzzy programming approach.

This thesis has explained the central importance of the animation methodology on the understanding and awareness of the methods used to solve complex problems. The main goal of the present study was designed to determine the effect of the visualization in identifying and explaining the mechanical work of the genetic algorithm for solving the multi-objective transportation problem, which enables the viewer to follow through the eye the algorithm step by step. In addition, we obtained the optimal solution for multi-objective optimization problem based on genetic algorithm.