

Assignment 35 (Experimental Evaluation)

	MENSA	NSGA-II
Population size	500	450
Selection method	Tournament Selection	Tournament Selection
Crossover probability	95 %	90 %
Mutation probability	5 %	5 %
Max. number of generations	150	100

Shortcomings of the experiment

- Population size was huge which is not suitable for PC, would have worked better with lower population sizes (handling large sets).
- Population size is not uniform.
- The front shape is not distinguished.
- Simultaneous visualization is difficult.
- Cluster membership is not clear.
- Visual clutter is present in many regions.

Areas of improvement:

1. **Edge bundling** refinement could provide better visualization which finds lines that have similar direction & summarize them to make better recognizable.
2. **Opacity adjustment** could provide the centre of each cluster to provide more interpretability and to reveal cluster structure.

