

Larger and Additional Visualisations for Visualising The Global Structure Of Search Landscapes: Genetic Improvement As A Case Study

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Visualisations for ILS runs. Only the first 1000 iterations are visualised here.

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1 Triangle Program

1.1 Comparison Operators

1.1.1 Force-directed Layout

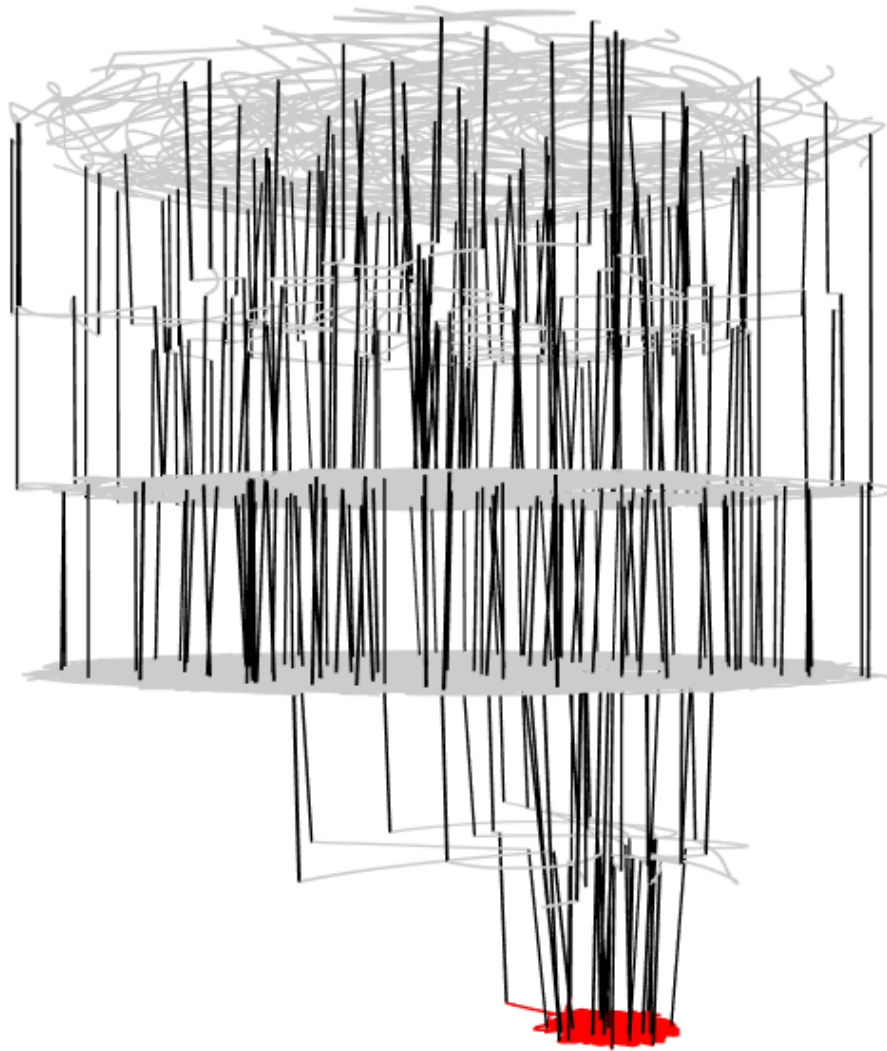


Figure 1: Triangle — Comparison Operators — Force-directed — 3D view — Runs 0–99

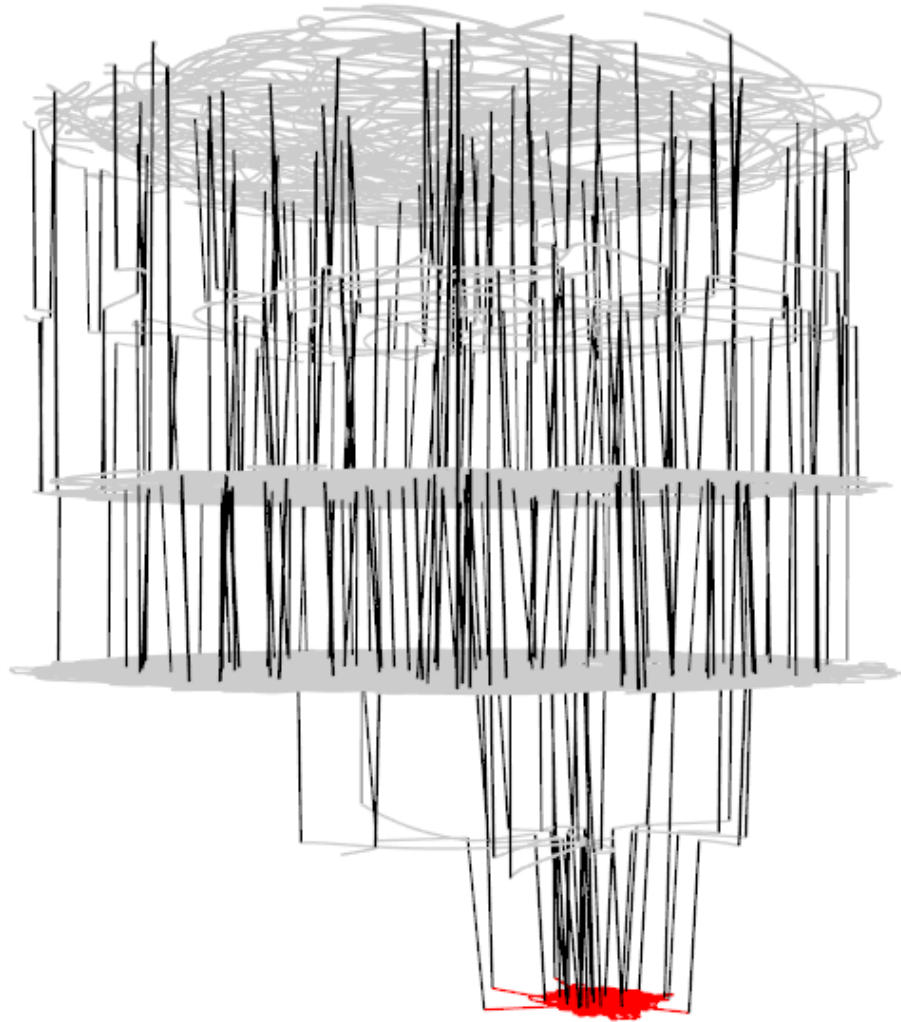


Figure 2: Triangle — Comparison Operators — Force-directed — 3D view — Runs 100–199

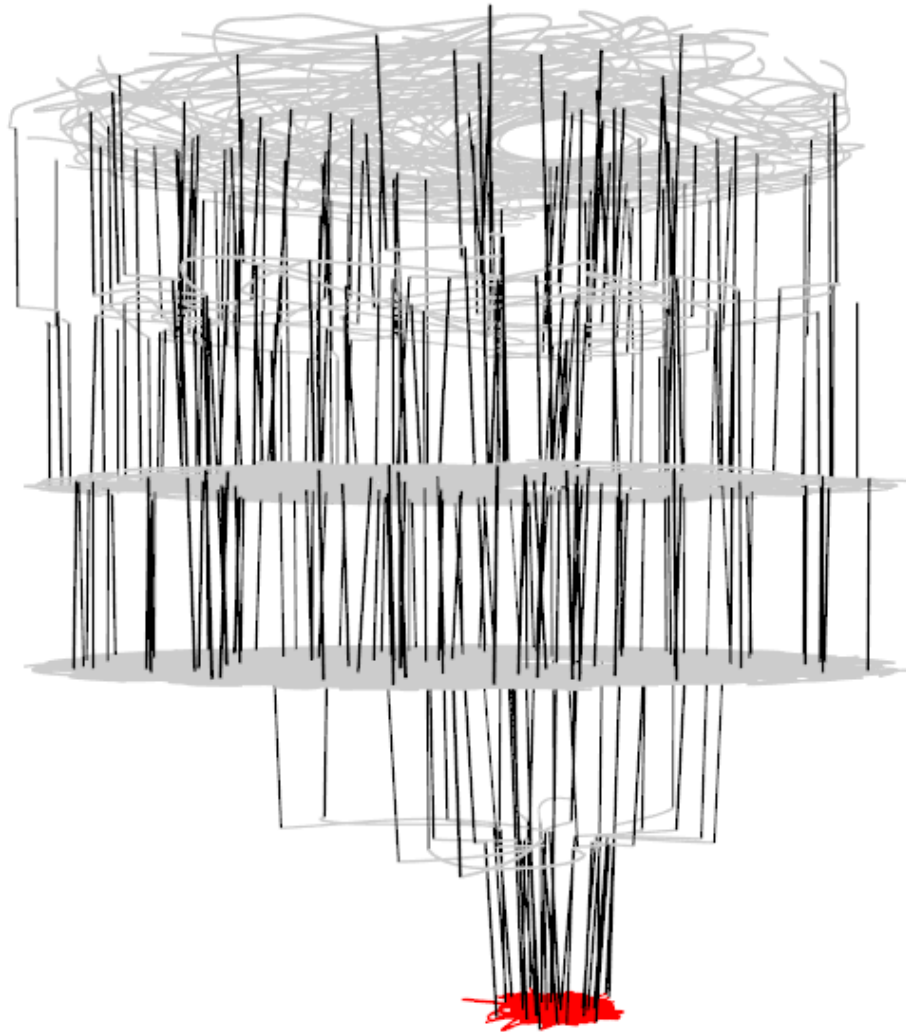


Figure 3: Triangle — Comparison Operators — Force-directed — 3D view — Runs 200–299

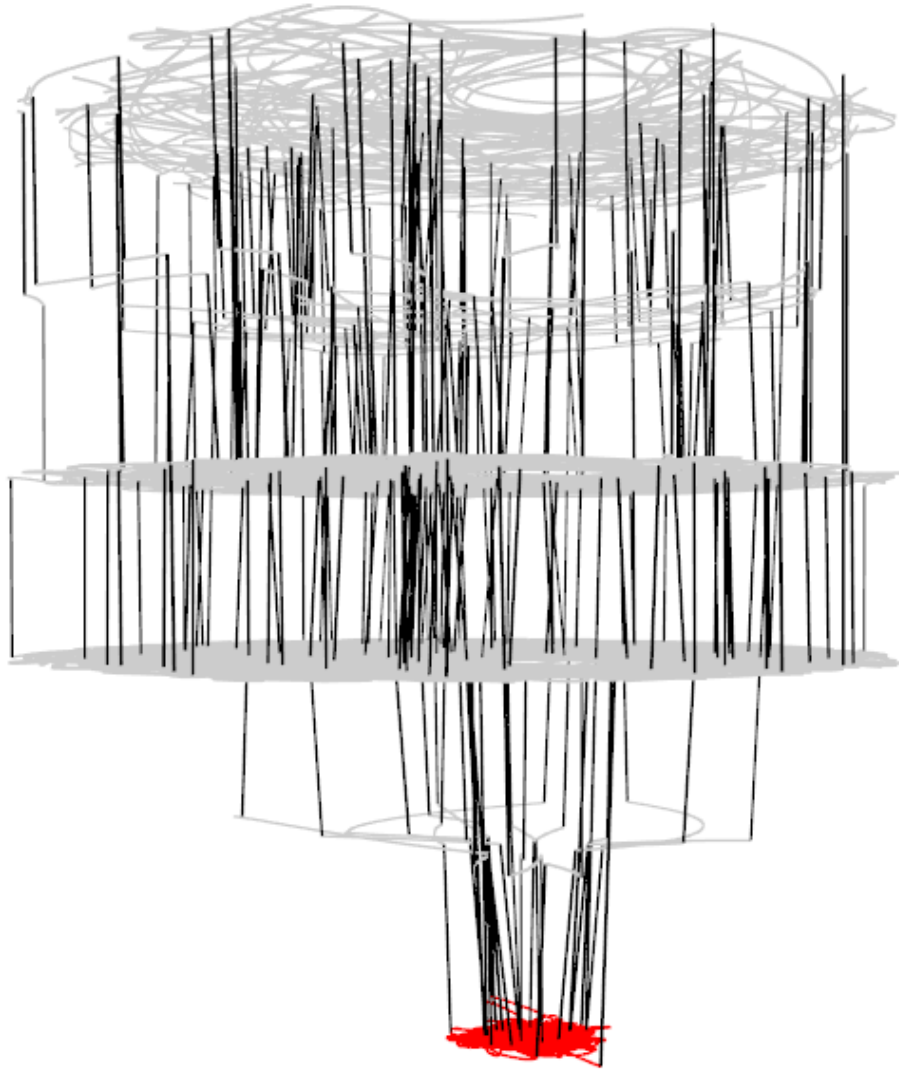


Figure 4: Triangle — Comparison Operators — Force-directed — 3D view — Runs 300–399

1.1.2 t-SNE Layout

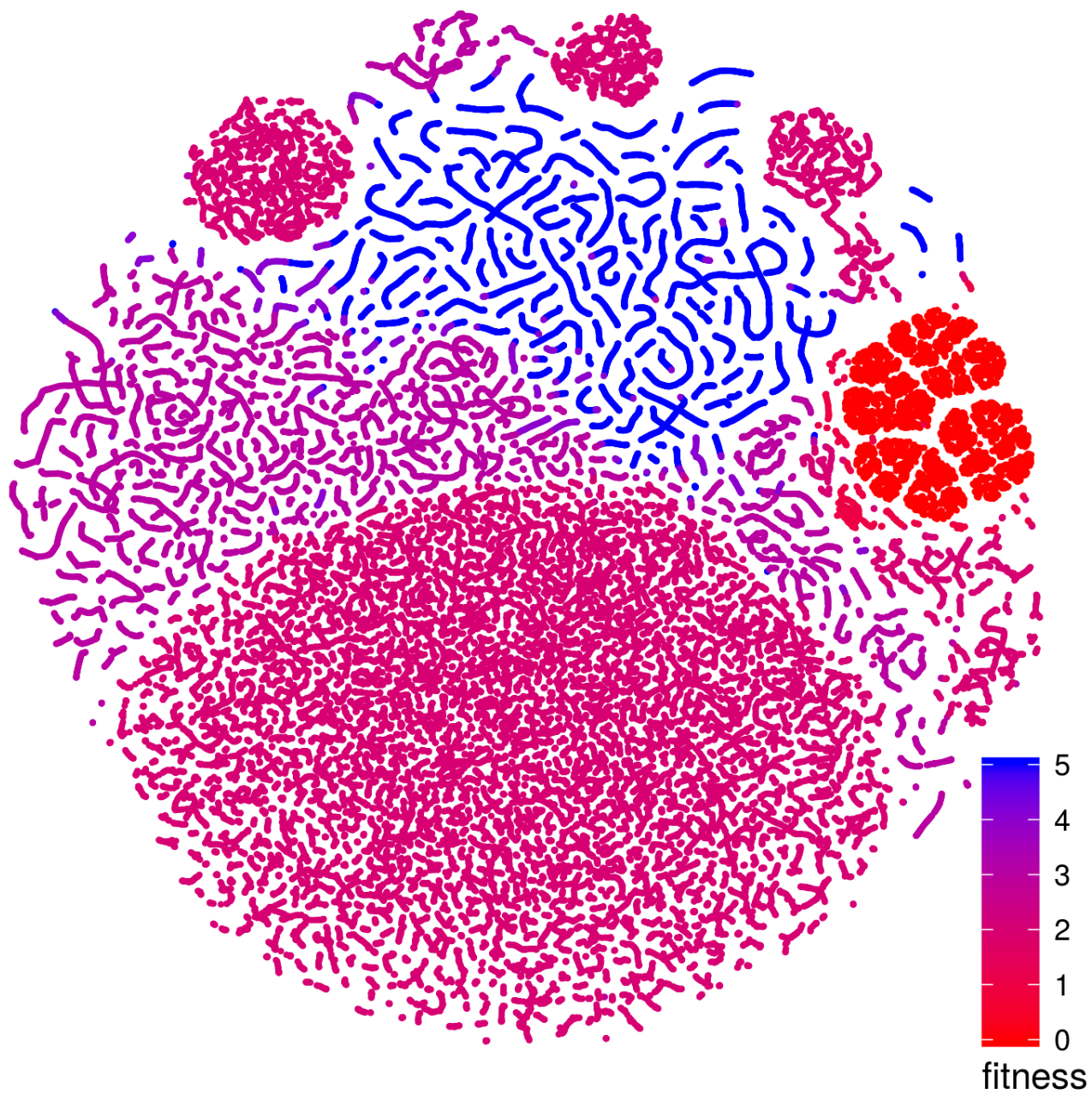


Figure 5: Triangle — Comparison Operators — t-SNE — Scatterplot — Runs 0-99

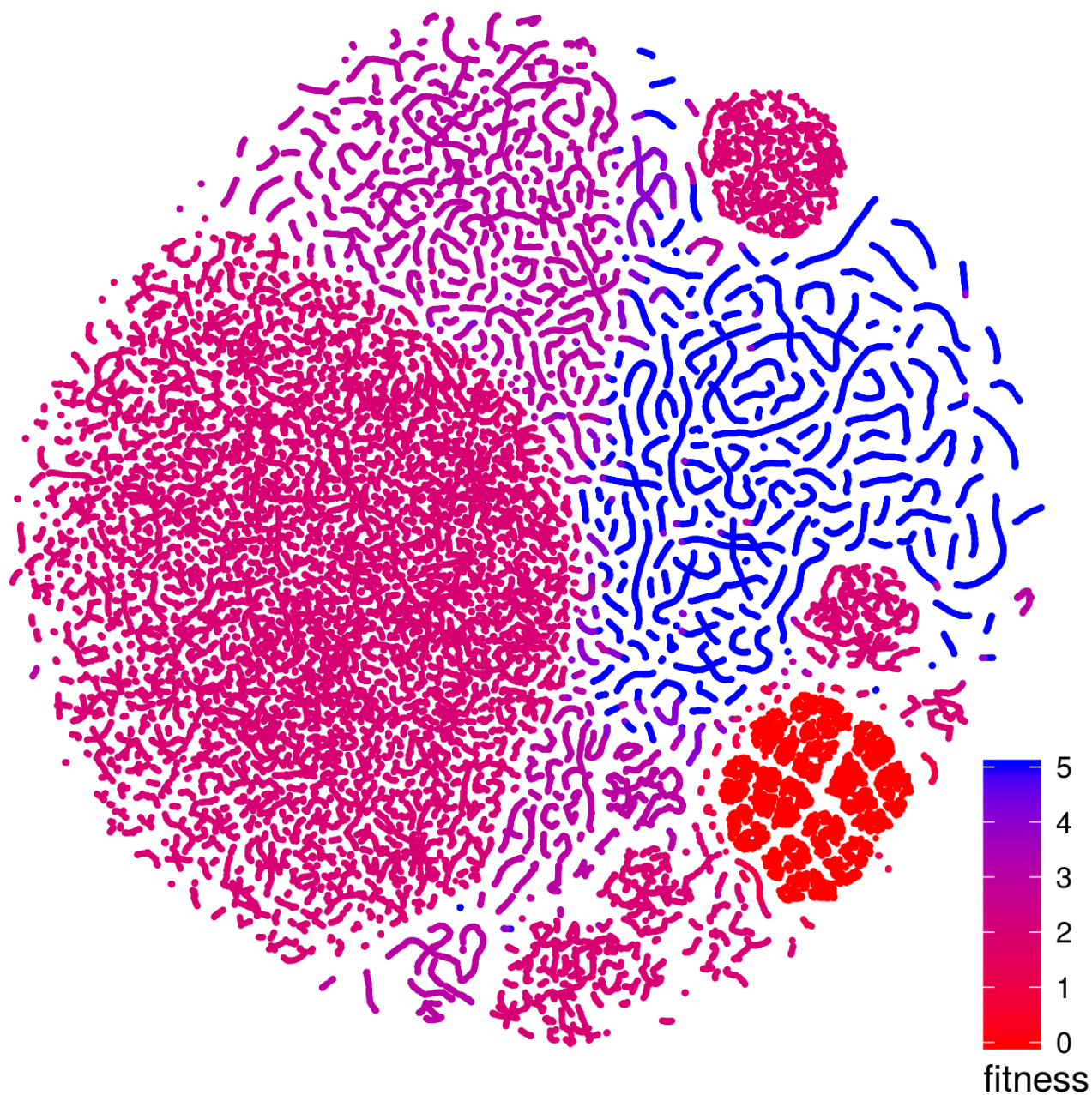


Figure 6: Triangle — Comparison Operators — t-SNE — Scatterplot — Runs 100–199

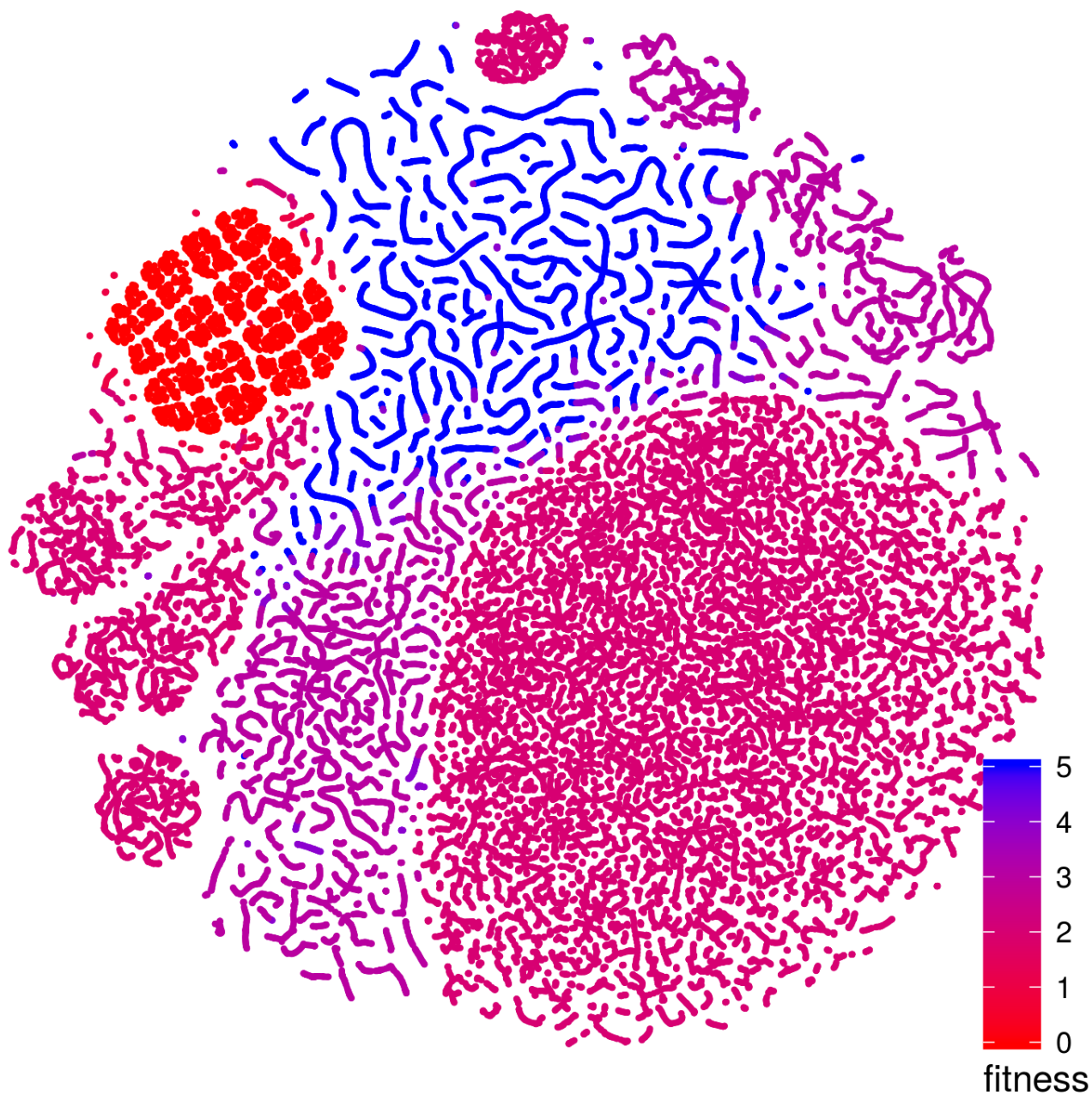


Figure 7: Triangle — Comparison Operators — t-SNE — Scatterplot — Runs 200–299

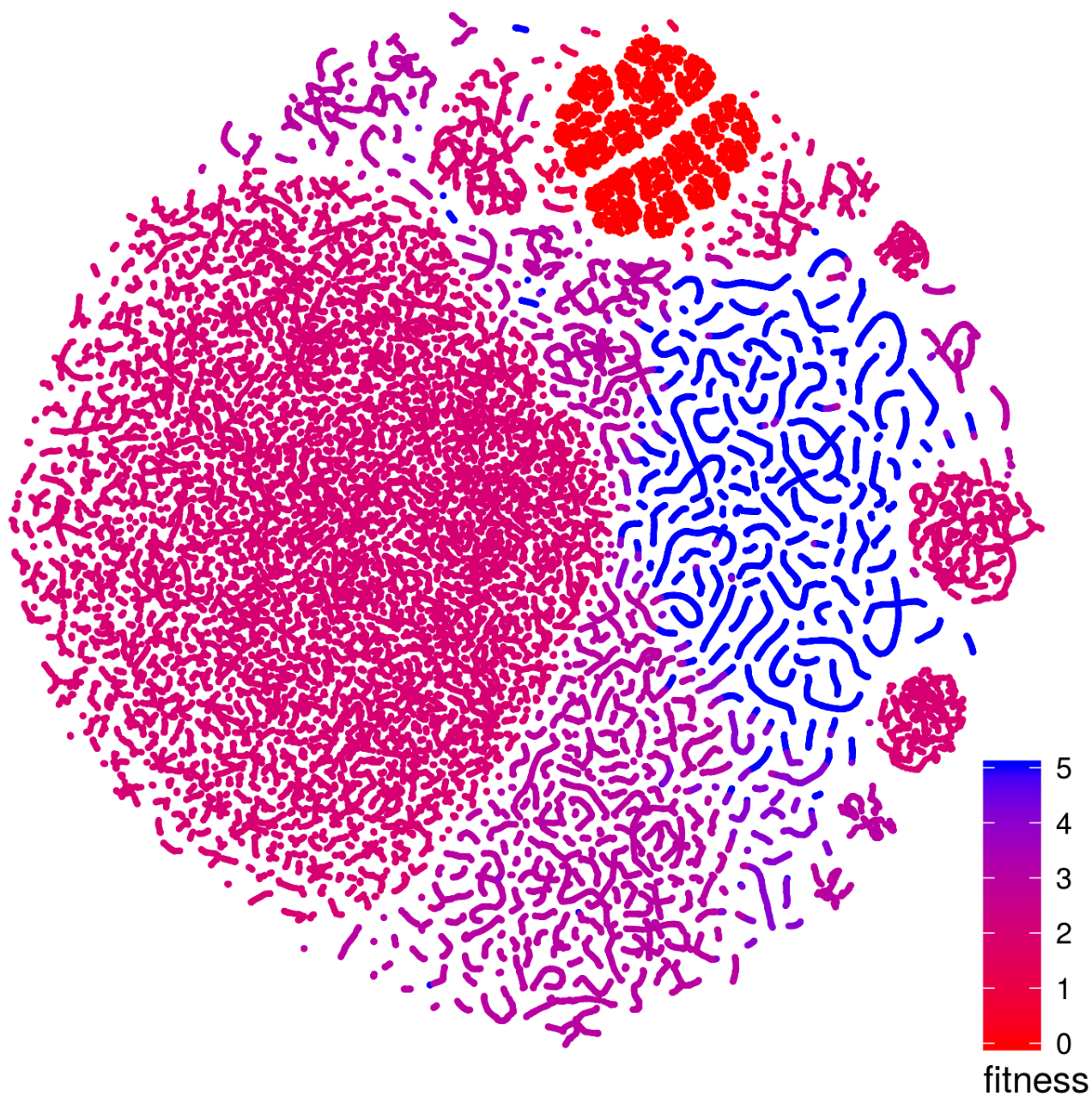


Figure 8: Triangle — Comparison Operators — t-SNE — Scatterplot — Runs 300–399

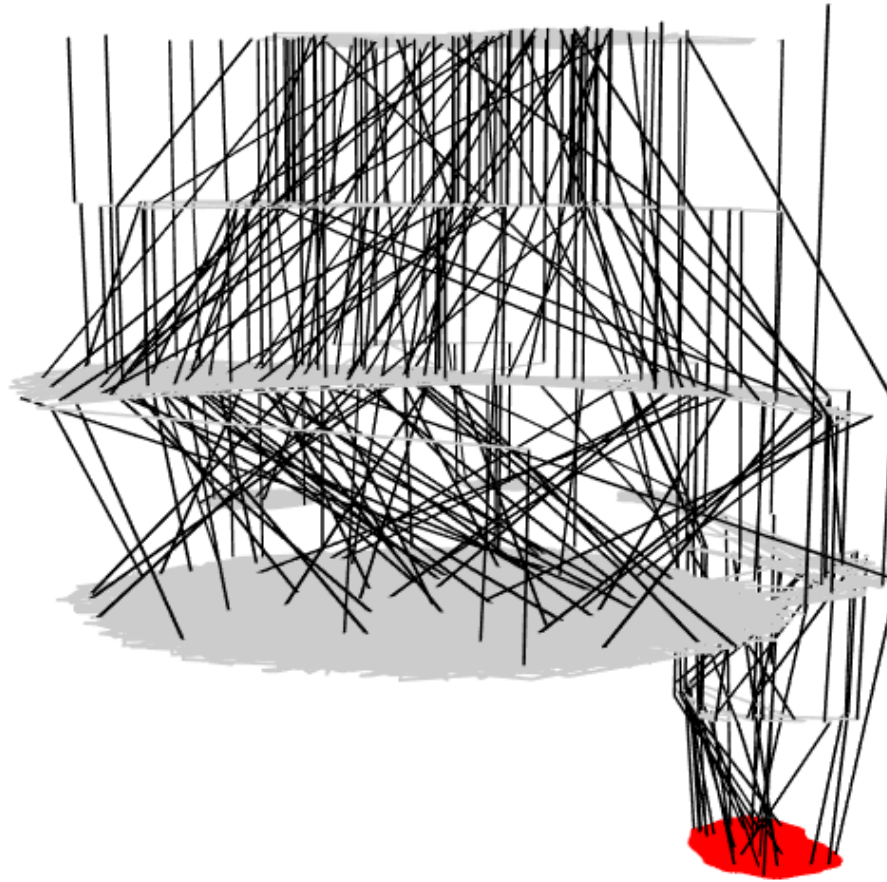


Figure 9: Triangle — Comparison Operators — t-SNE — Scatterplot — Runs 0–99

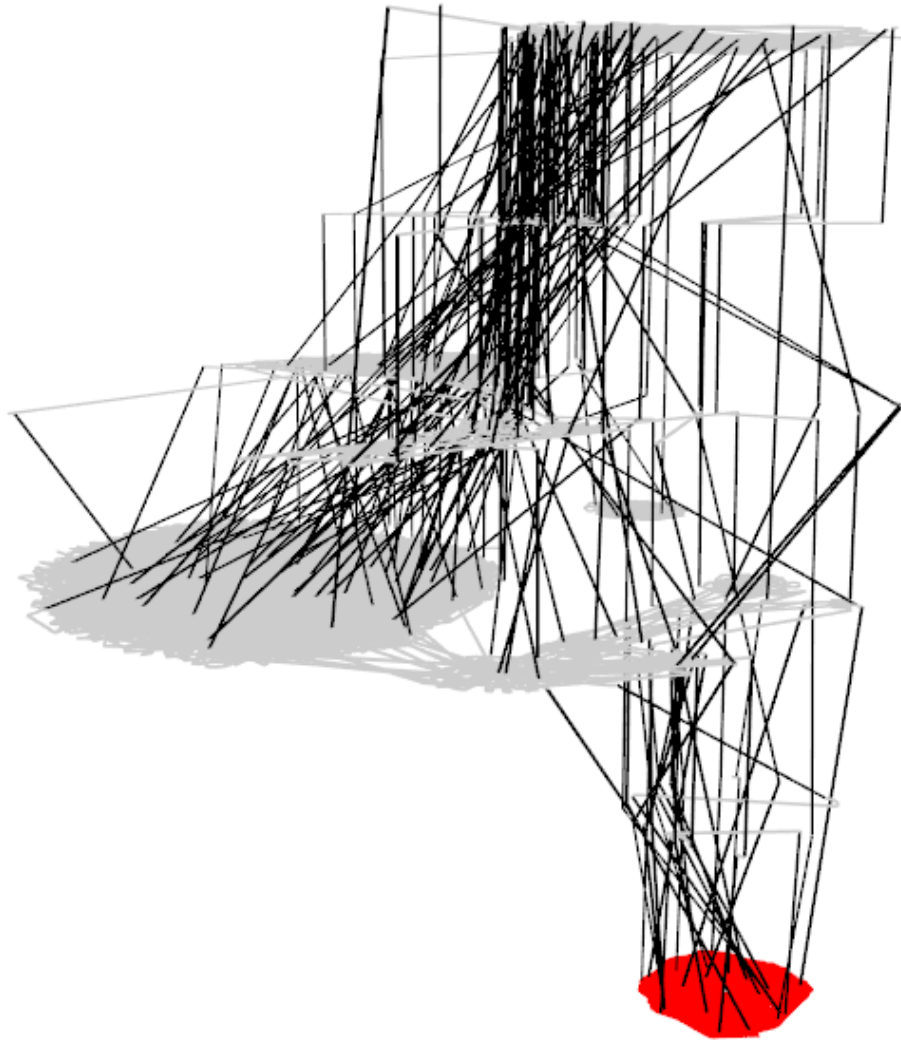


Figure 10: Triangle — Comparison Operators — t-SNE — Scatterplot — Runs 100–199

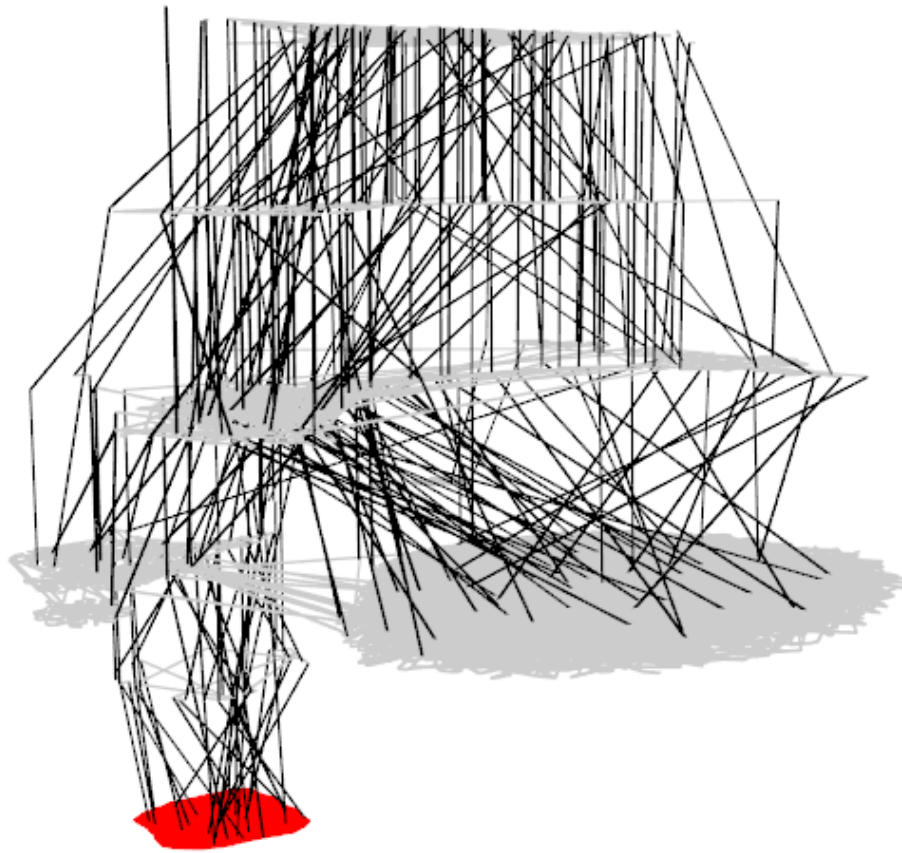


Figure 11: Triangle — Comparison Operators — t-SNE — Scatterplot — Runs 200–299

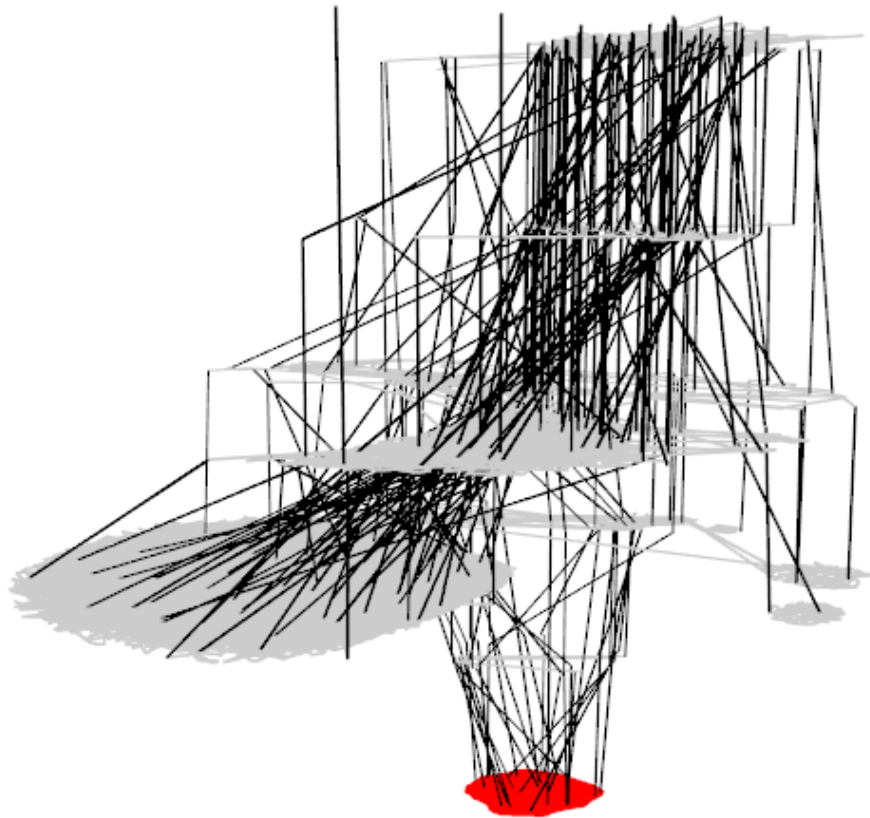


Figure 12: Triangle — Comparison Operators — t-SNE — Scatterplot — Runs 300–399

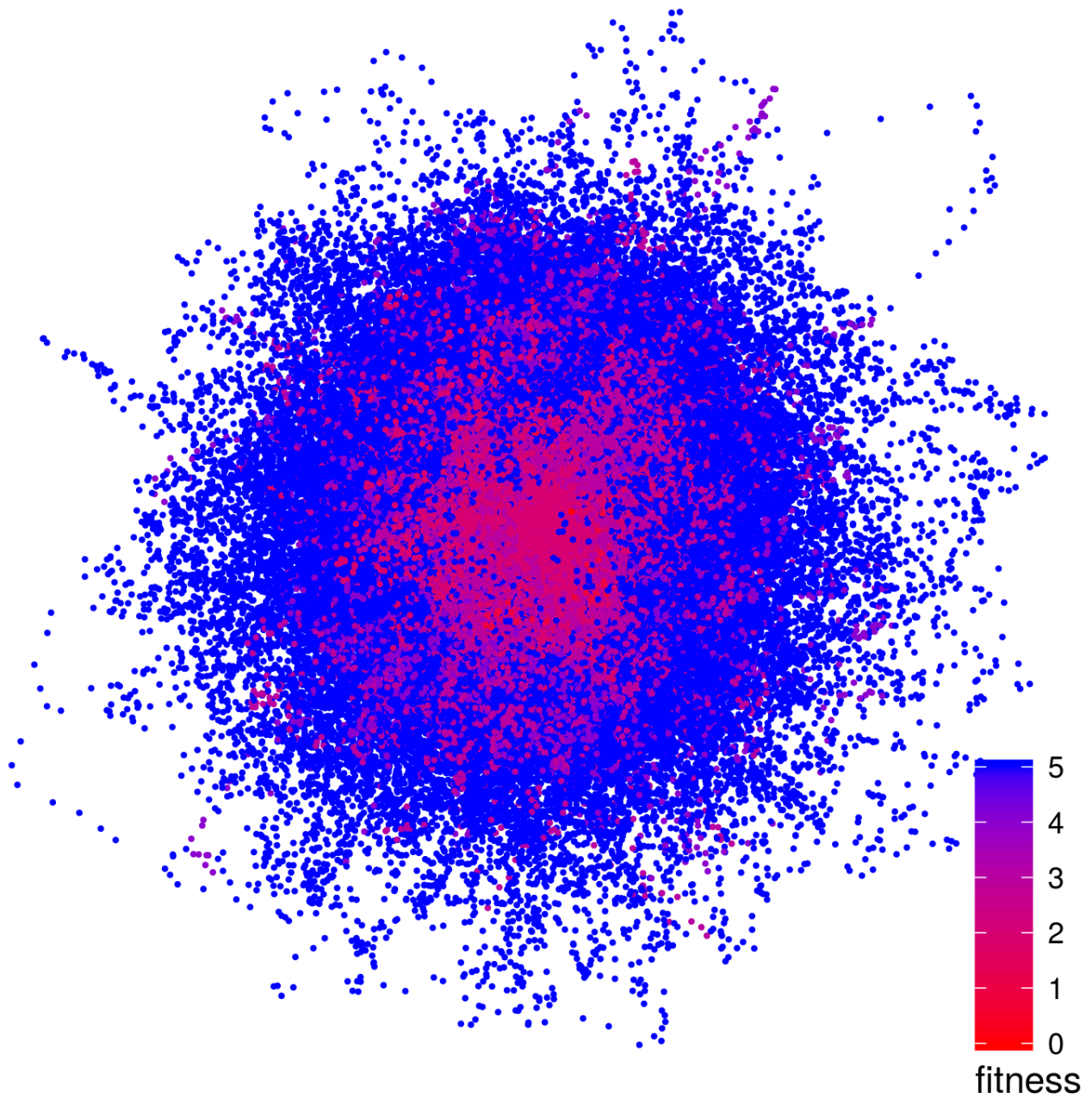


Figure 13: Triangle — Comparison Operators — t-SNE — Scatterplot — Runs 0-999

1.2 Comparison and Boolean Operators

1.2.1 Force-directed Layout

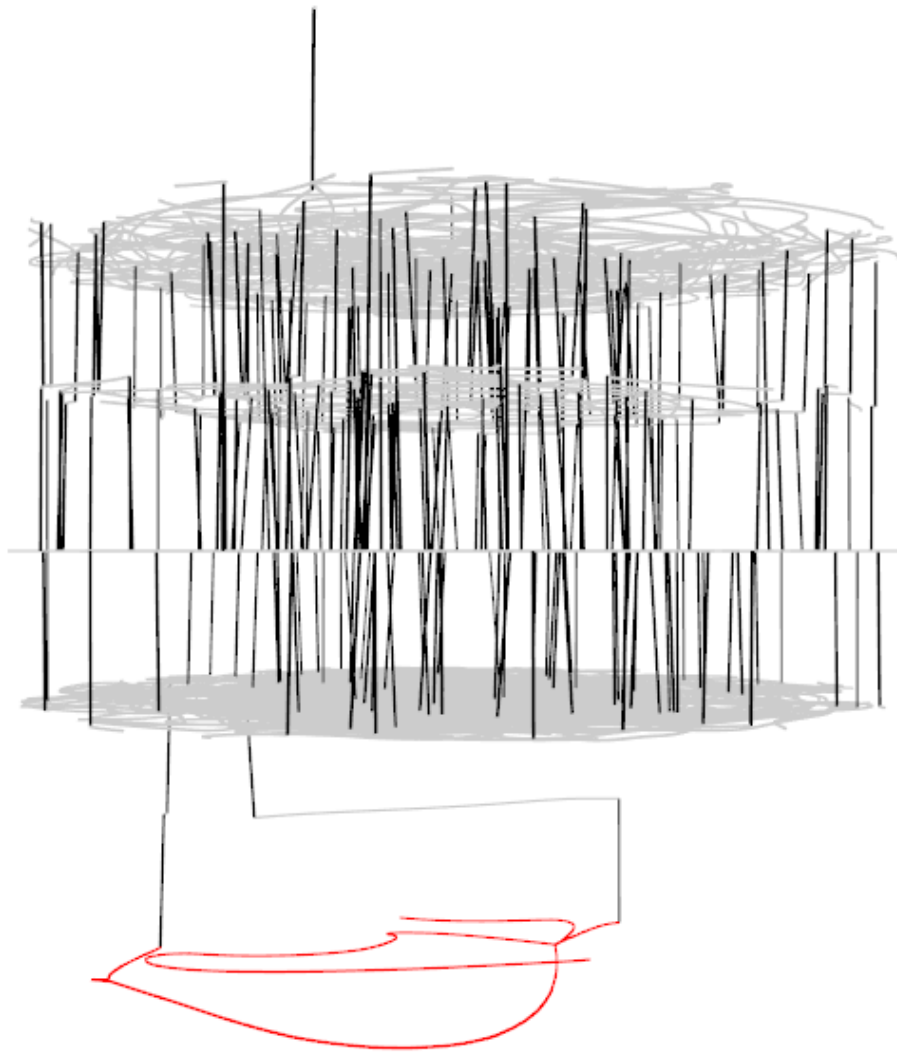


Figure 14: Triangle — Comparison and Boolean Operators — Force-directed — 3D view — Runs 0–99

1.2.2 t-SNE Layout

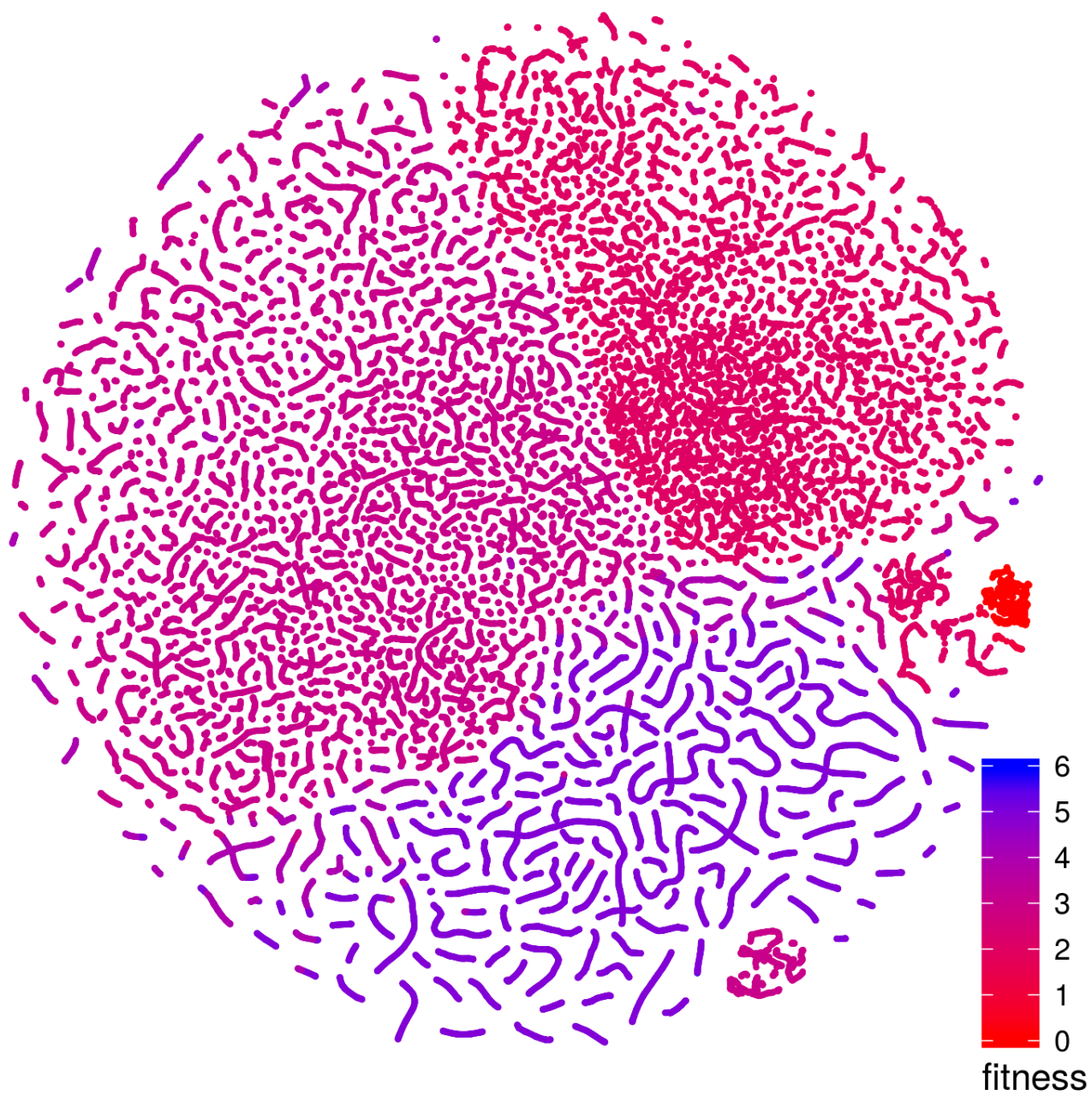


Figure 15: Triangle — Comparison and Boolean Operators — t-SNE — Scatterplot — Runs 0–99

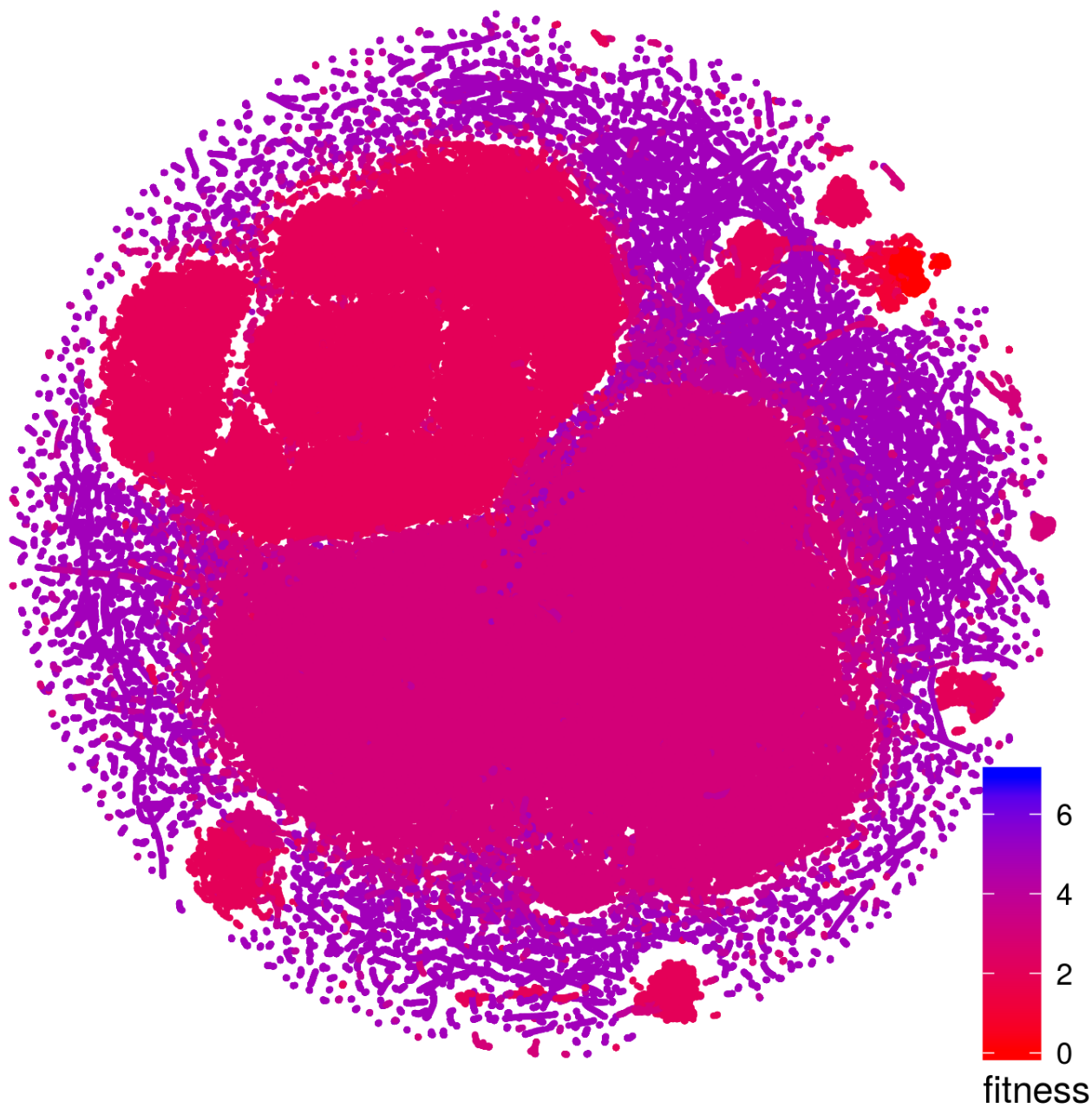


Figure 16: Triangle — Comparison and Boolean Operators — t-SNE — Scatterplot — Runs 0–999

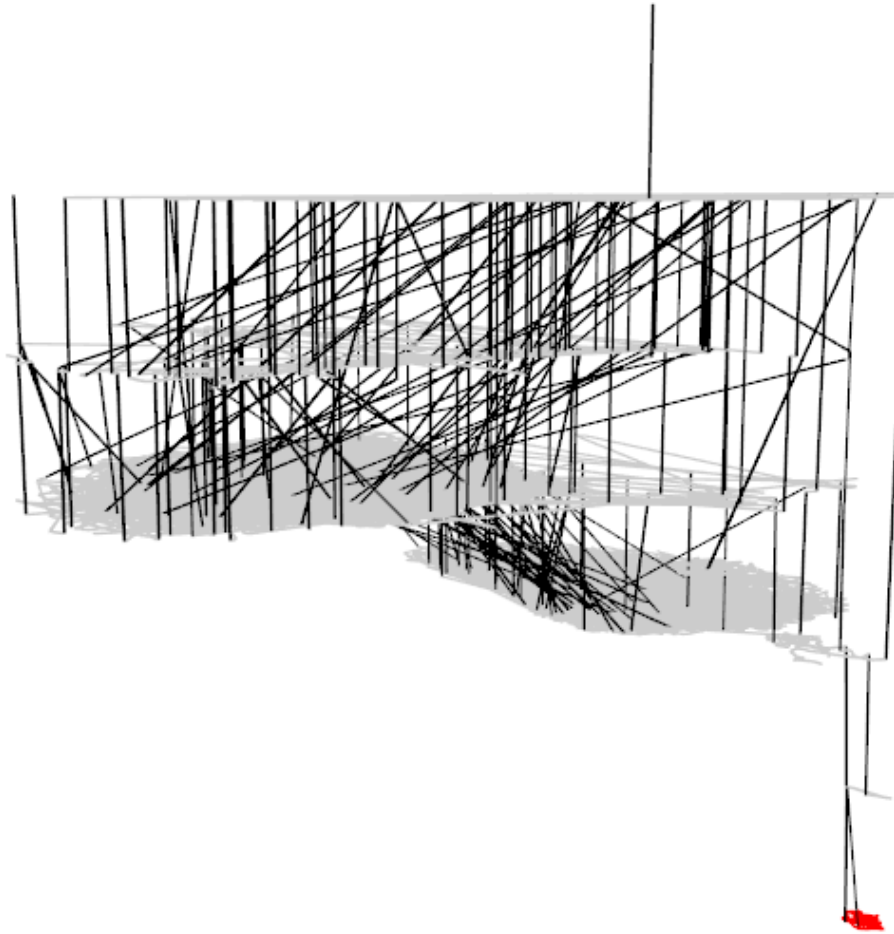


Figure 17: Triangle — Comparison and Boolean Operators — t-SNE — Scatterplot — Runs 0–99

2 TCAS Program

2.1 Comparison Operators

2.1.1 Force-directed Layout

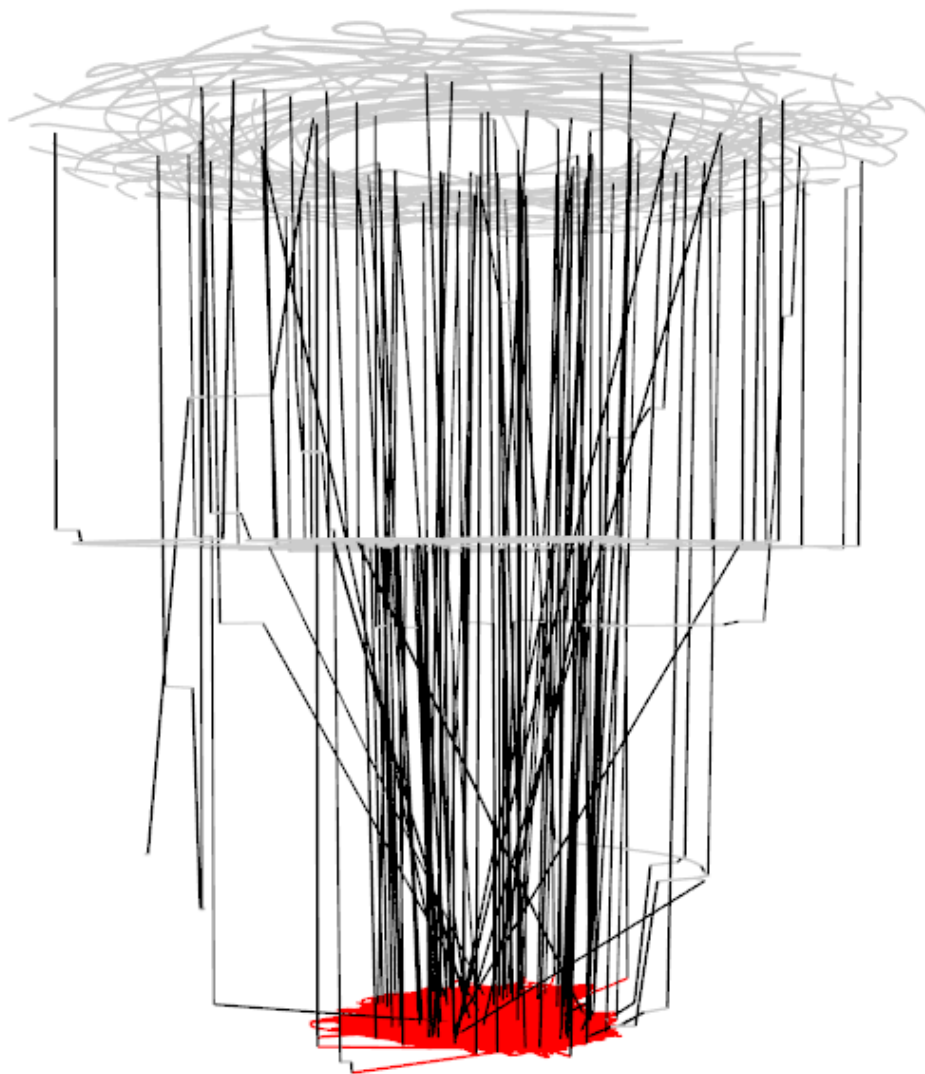


Figure 18: TCAS — Comparison Operators — Force-directed — 3D view — Runs 0–99

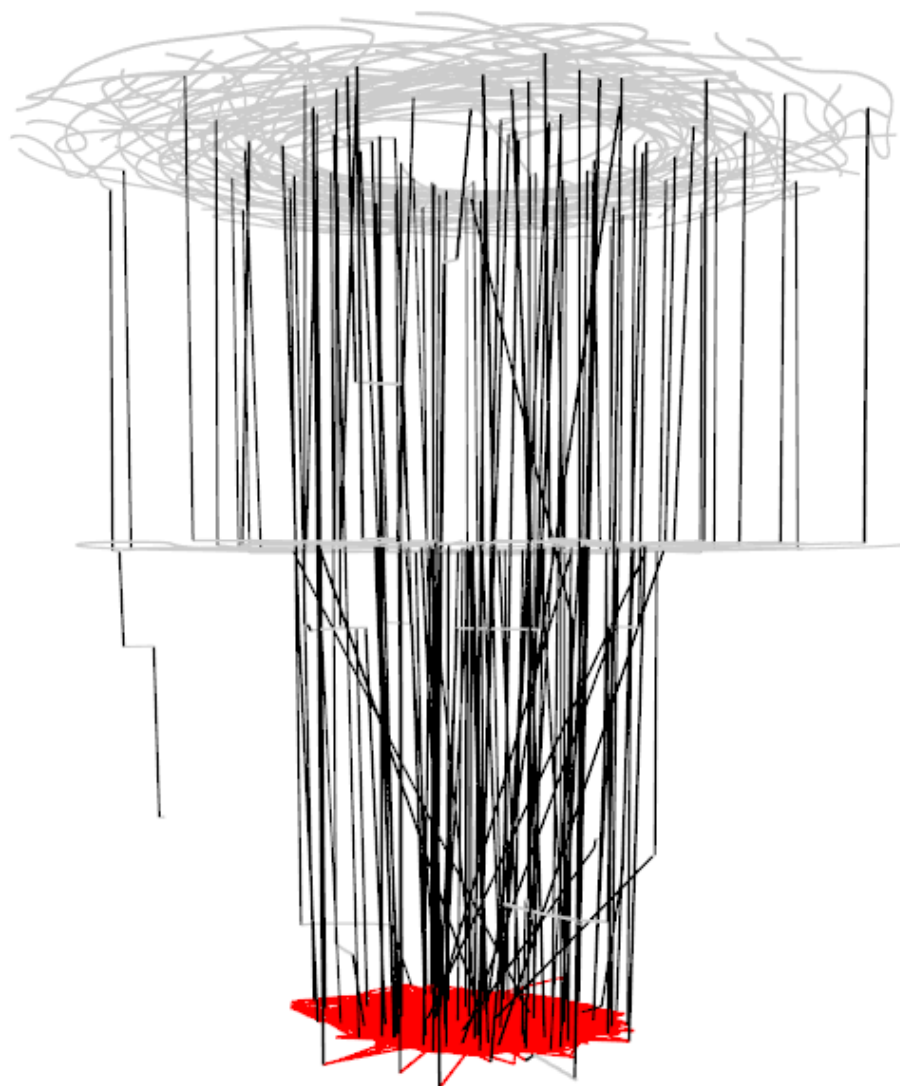


Figure 19: TCAS — Comparison Operators — Force-directed — 3D view — Runs 100–199

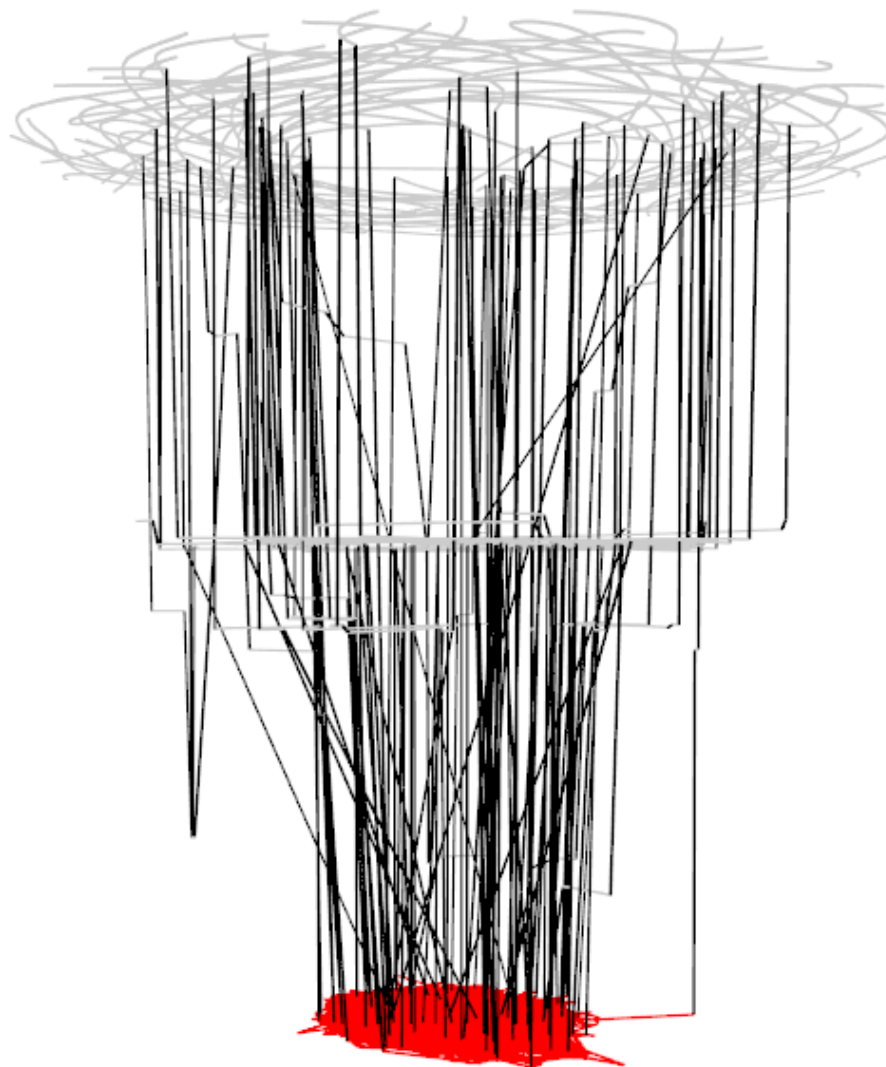


Figure 20: TCAS — Comparison Operators — Force-directed — 3D view — Runs 200–299

2.1.2 t-SNE Layout

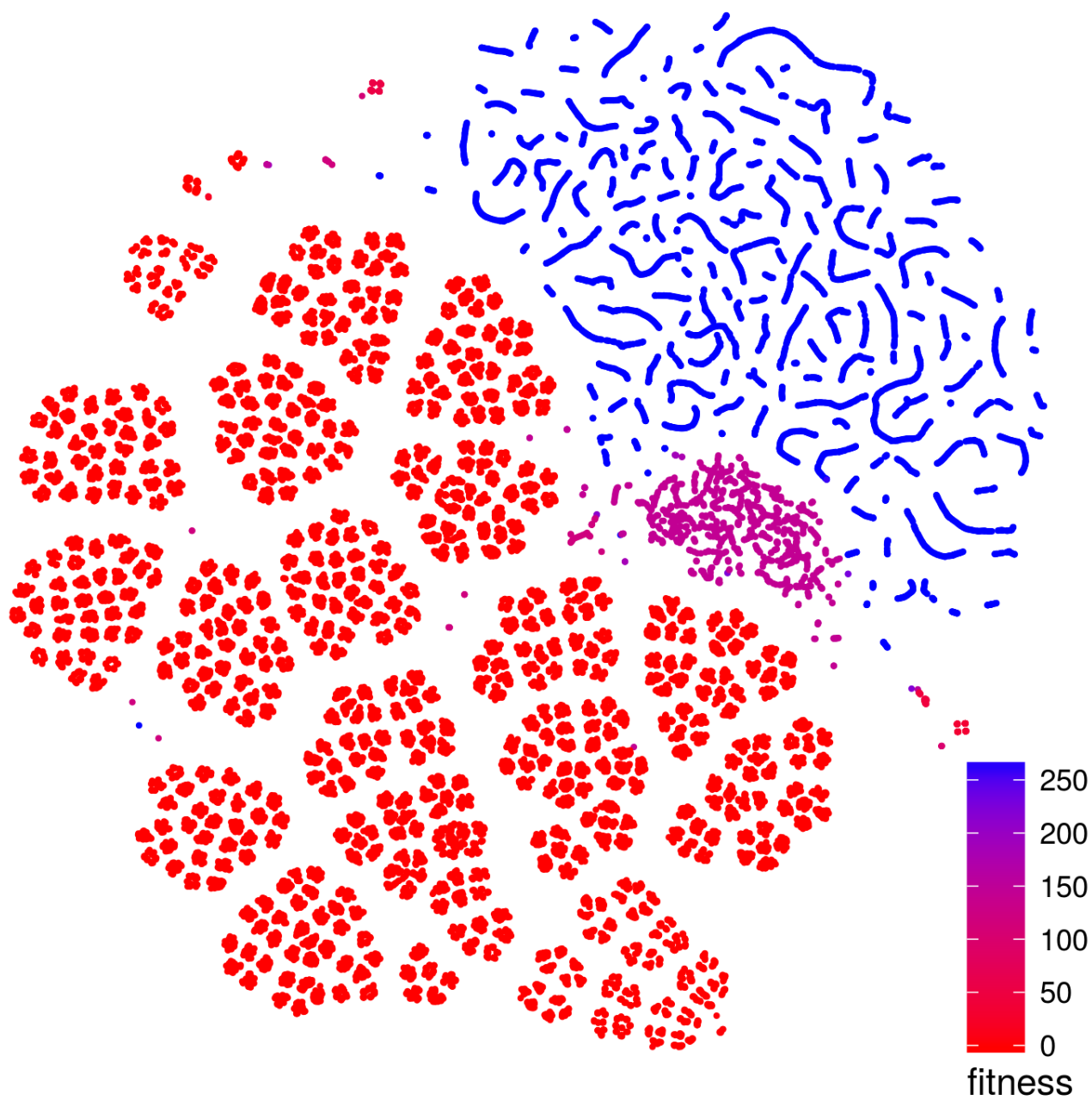


Figure 21: TCAS — Comparison Operators — t-SNE — Scatterplot — Runs 0–99

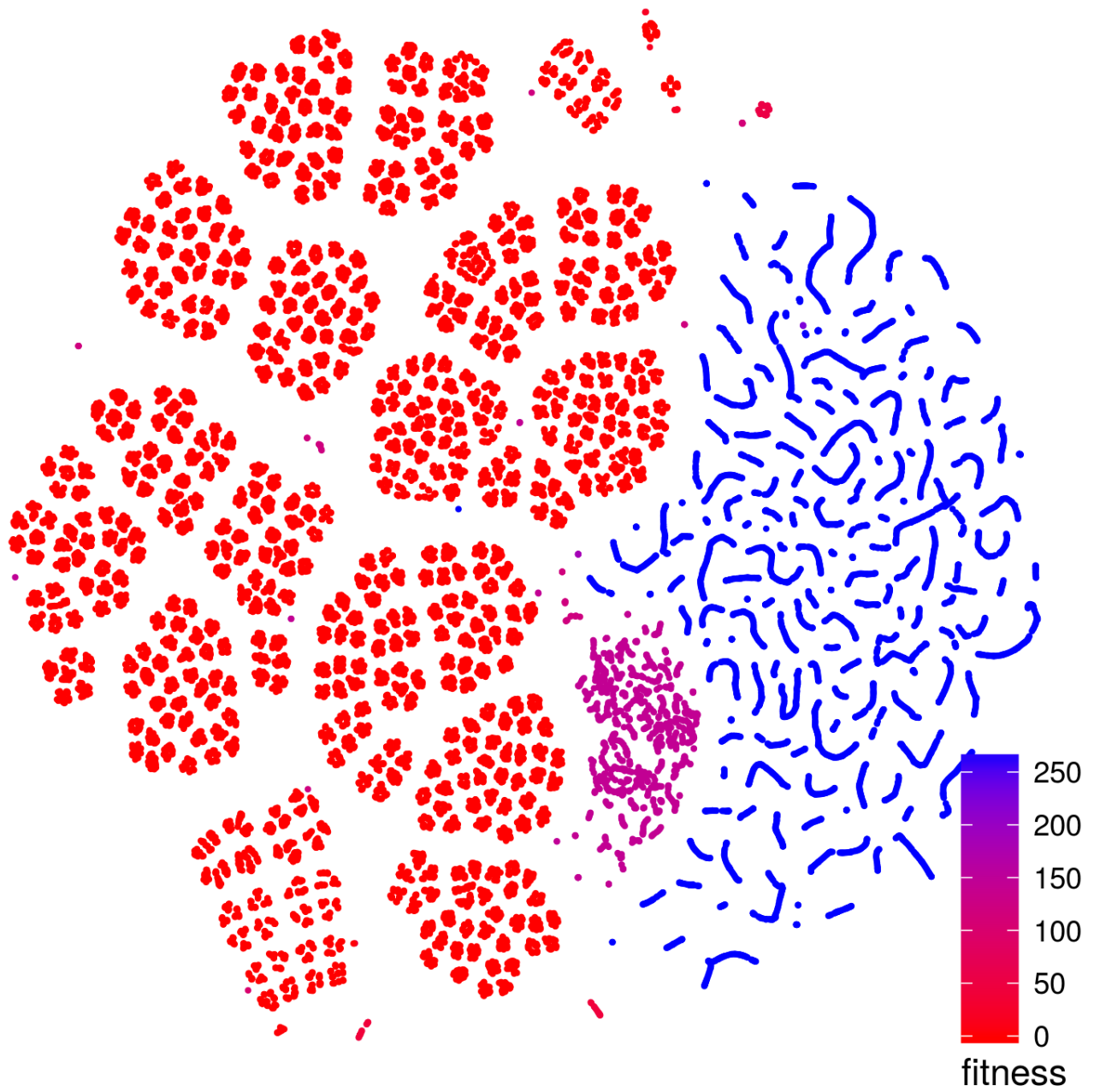
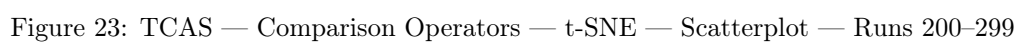


Figure 22: TCAS — Comparison Operators — t-SNE — Scatterplot — Runs 100–199



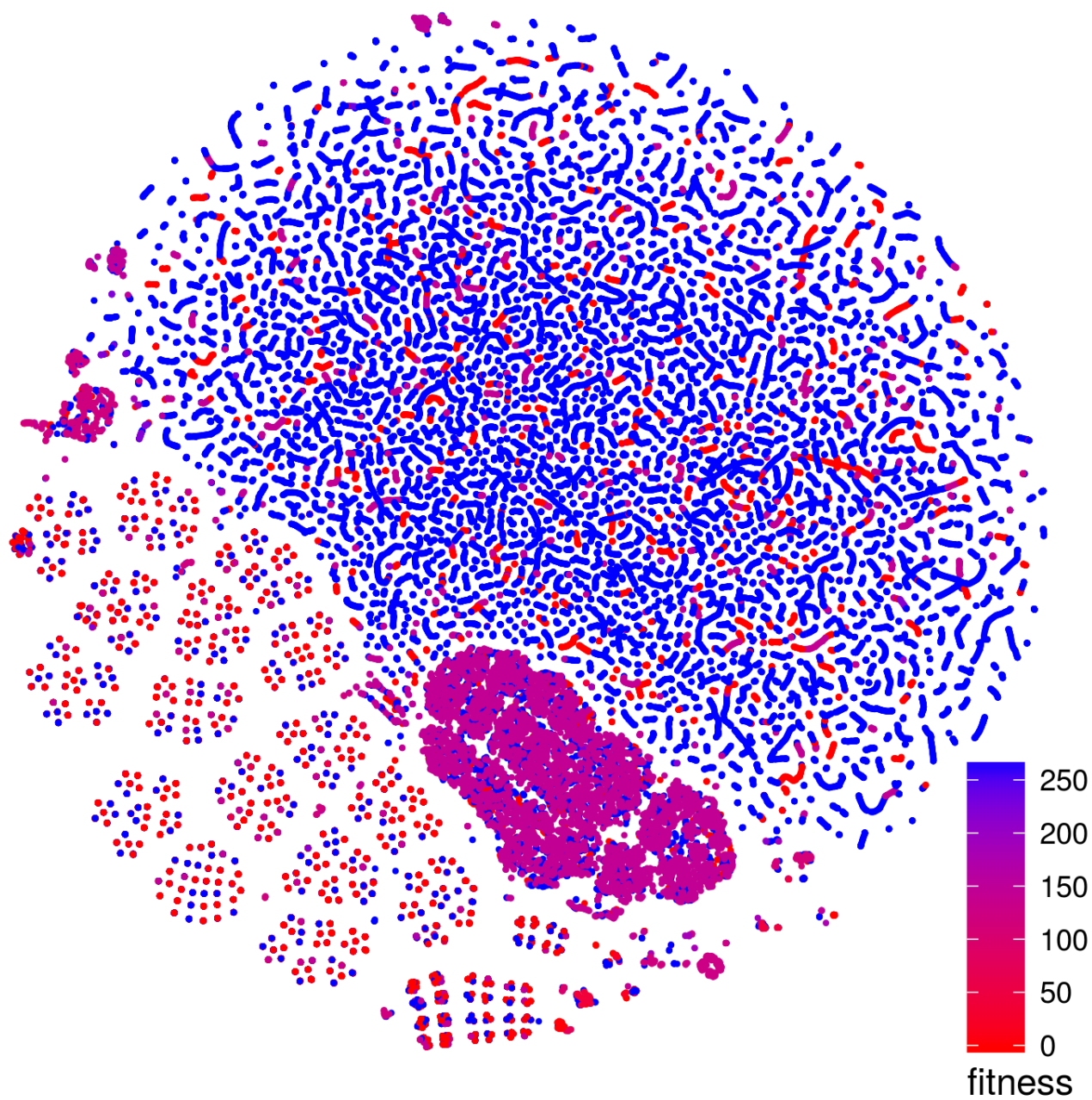


Figure 24: TCAS — Comparison Operators — t-SNE — Scatterplot — Runs 0–999

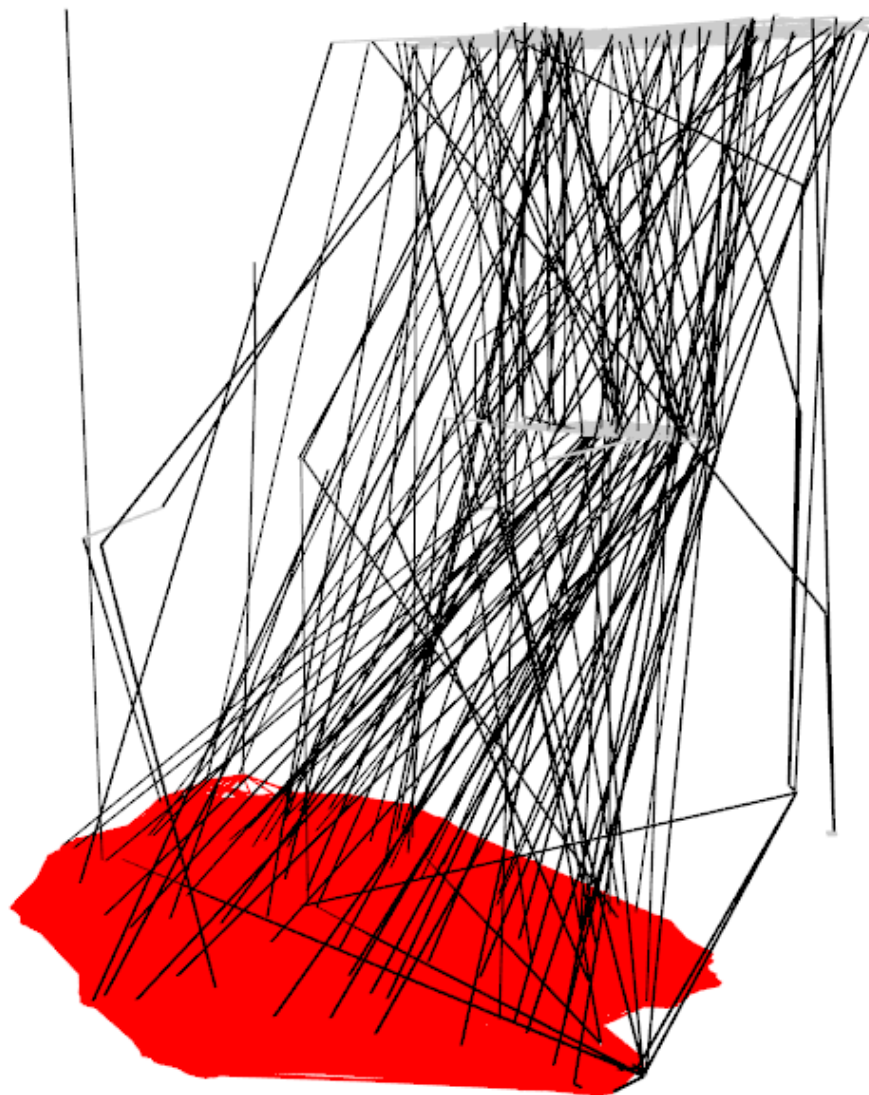


Figure 25: TCAS — Comparison Operators — t-SNE — Scatterplot — Runs 0–99

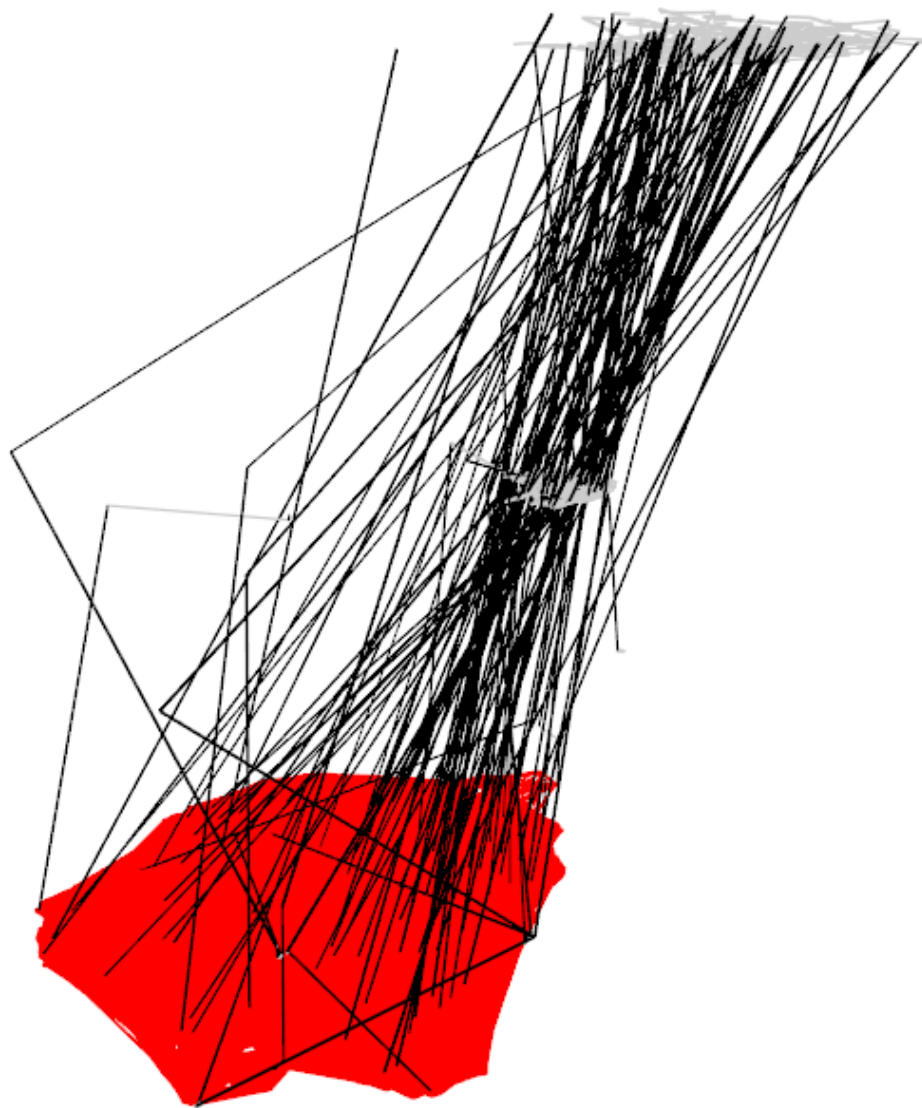


Figure 26: TCAS — Comparison Operators — t-SNE — Scatterplot — Runs 100–199

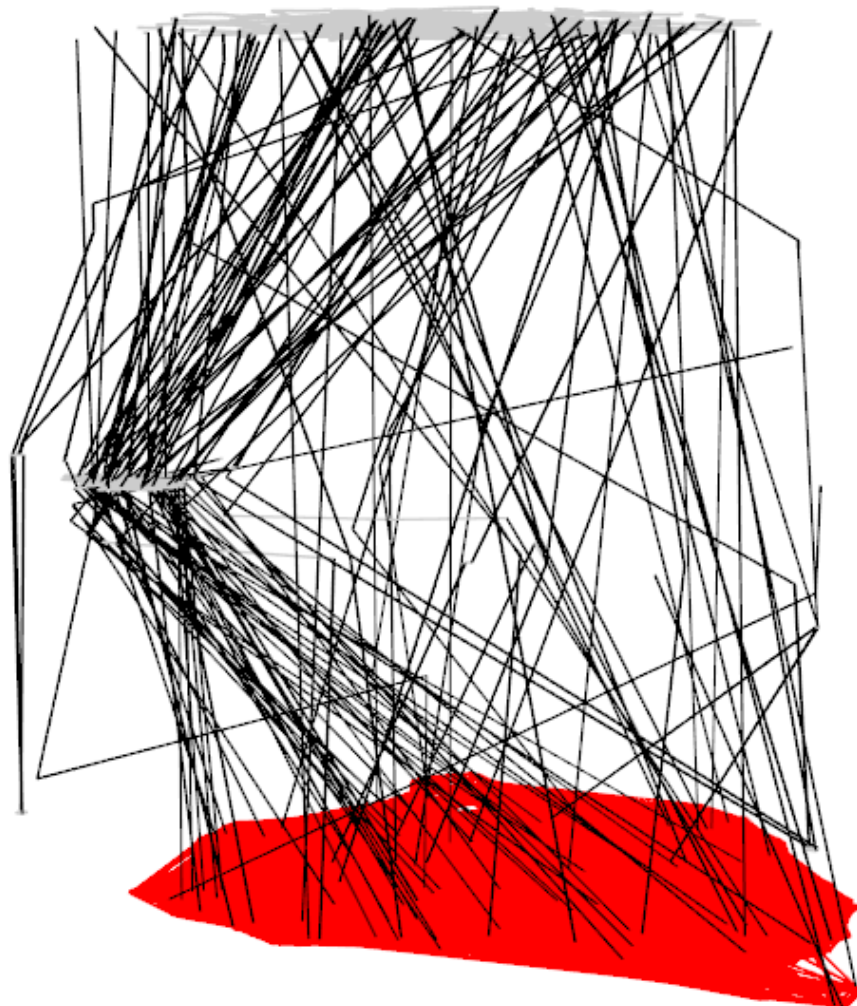


Figure 27: TCAS — Comparison Operators — t-SNE — Scatterplot — Runs 200–299

2.2 Comparison and Boolean Operators

2.2.1 Force-directed Layout

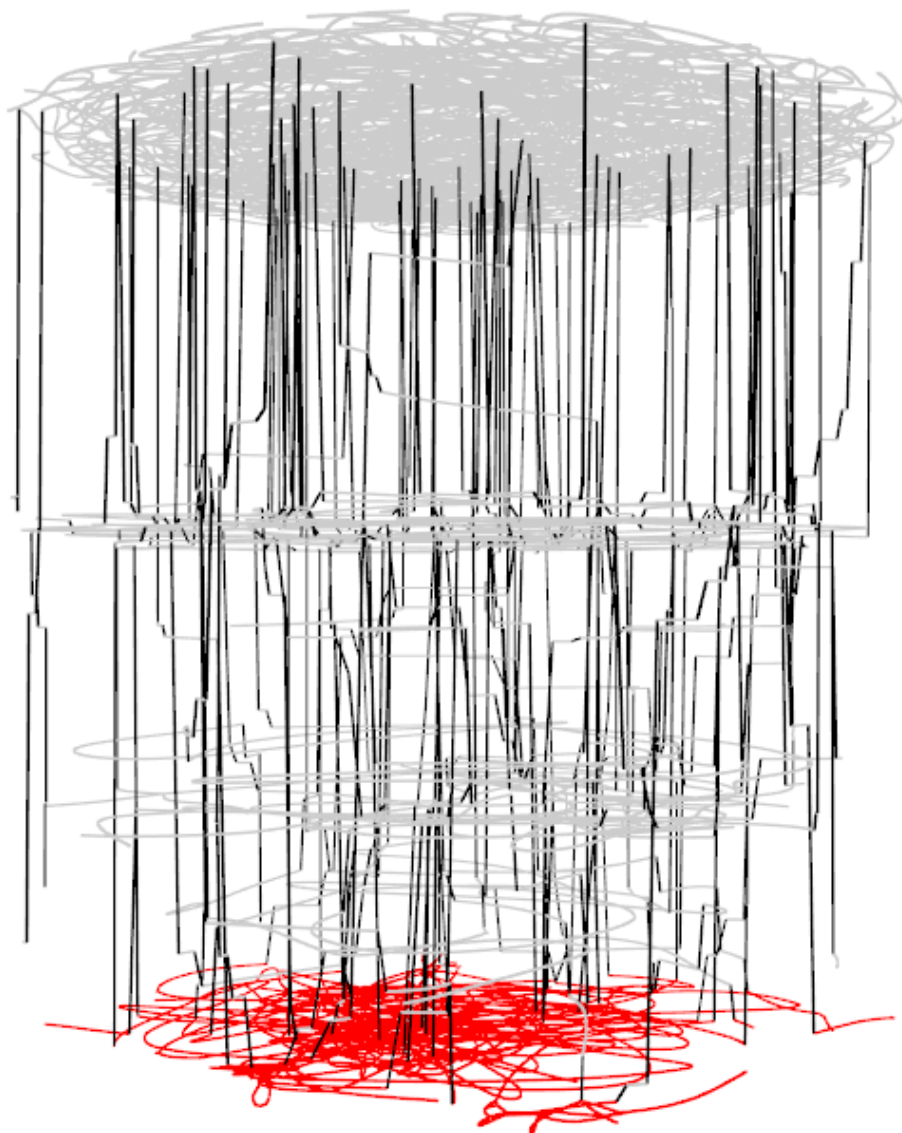


Figure 28: TCAS — Comparison and Boolean Operators — Force-directed — 3D view — Runs 0–99

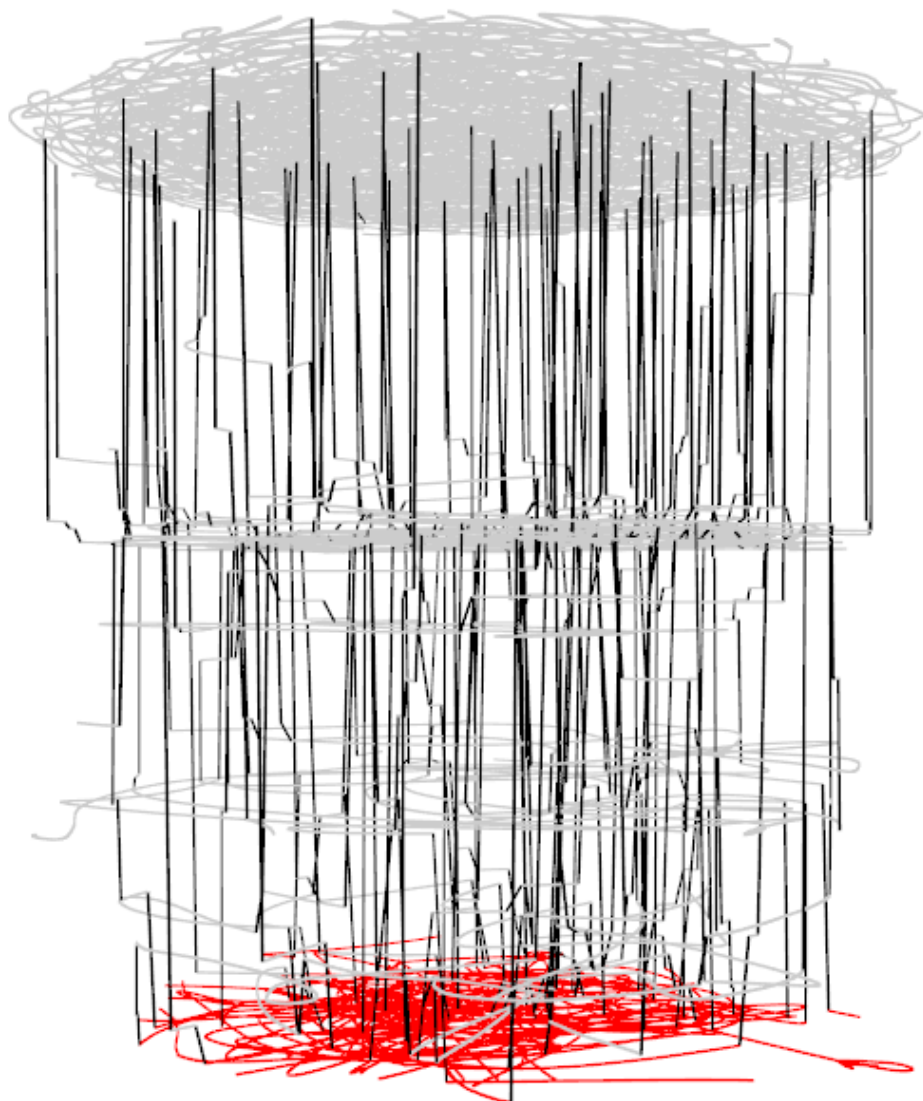


Figure 29: TCAS — Comparison and Boolean Operators — Force-directed — 3D view — Runs 100–199

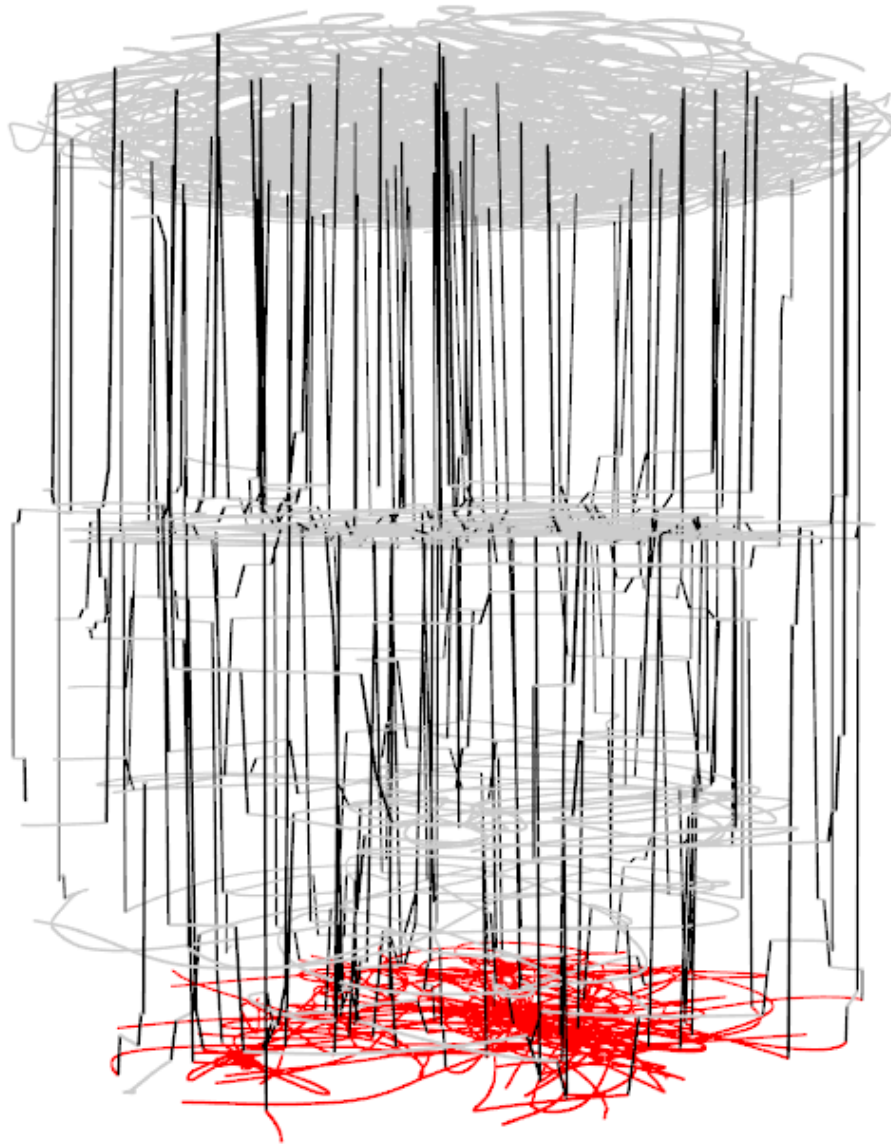


Figure 30: TCAS — Comparison and Boolean Operators — Force-directed — 3D view — Runs 200–299

2.2.2 t-SNE Layout

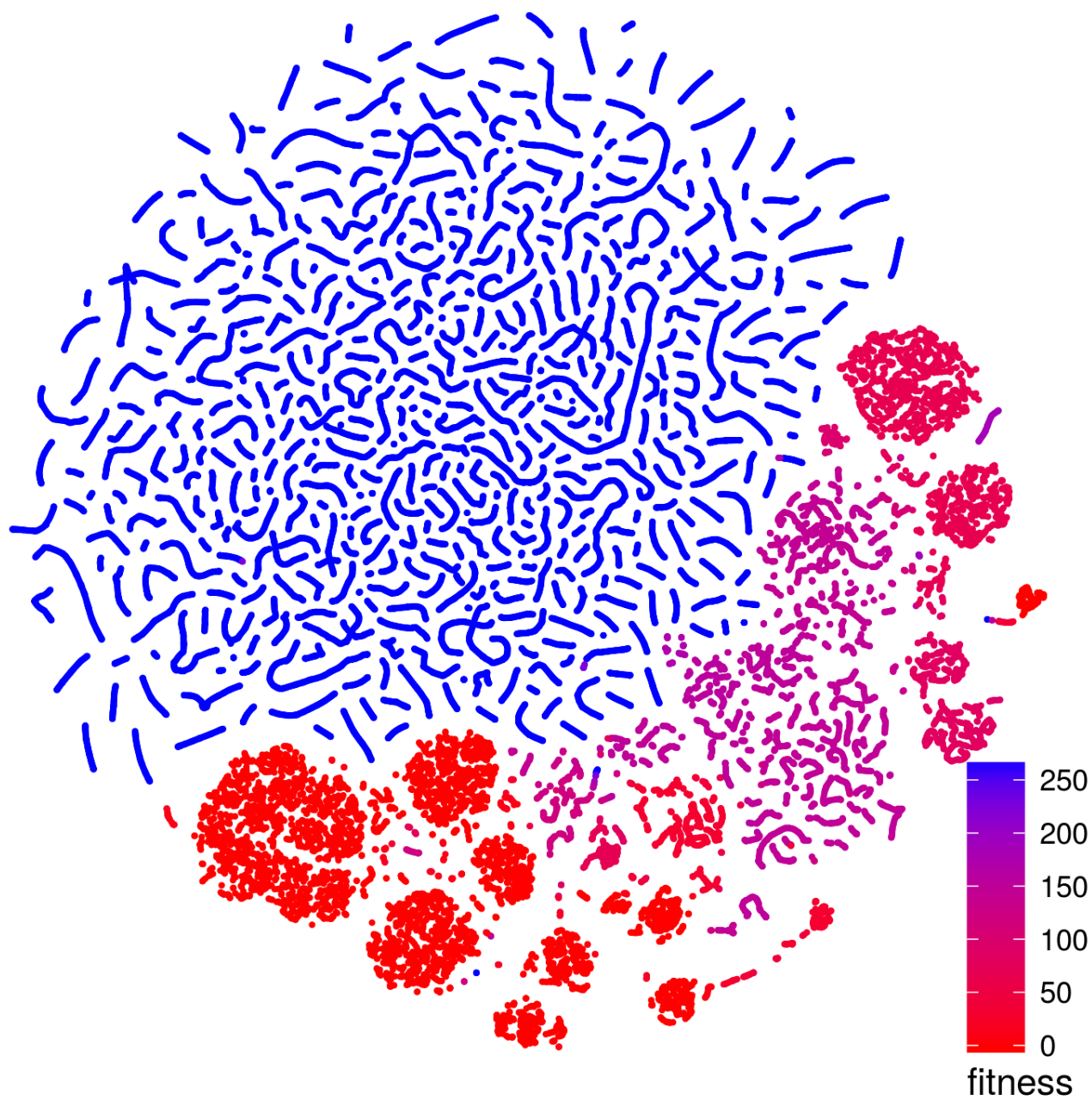


Figure 31: TCAS — Comparison and Boolean Operators — t-SNE — Scatterplot — Runs 0–99

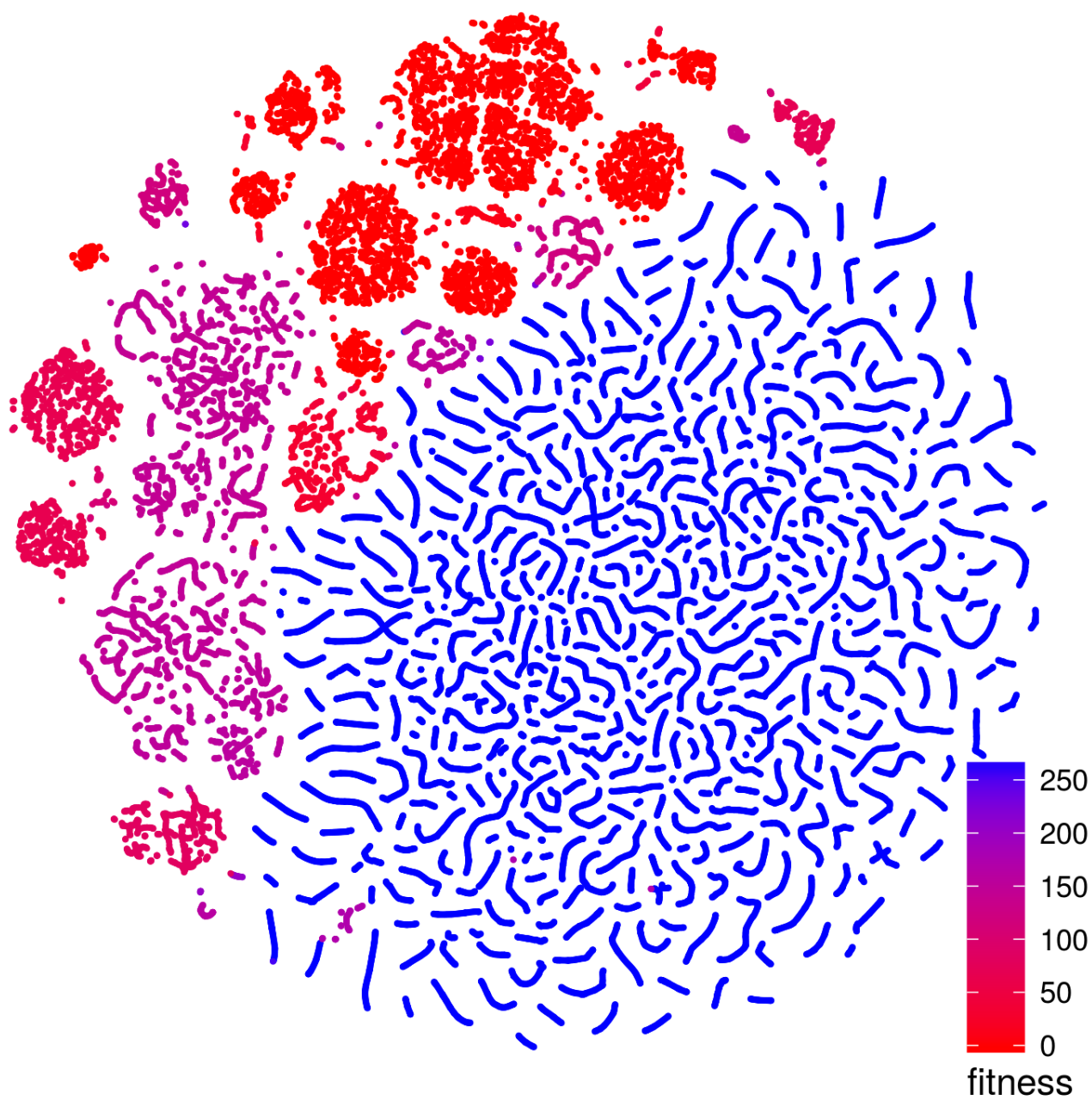


Figure 32: TCAS — Comparison and Boolean Operators — t-SNE — Scatterplot — Runs 100-199

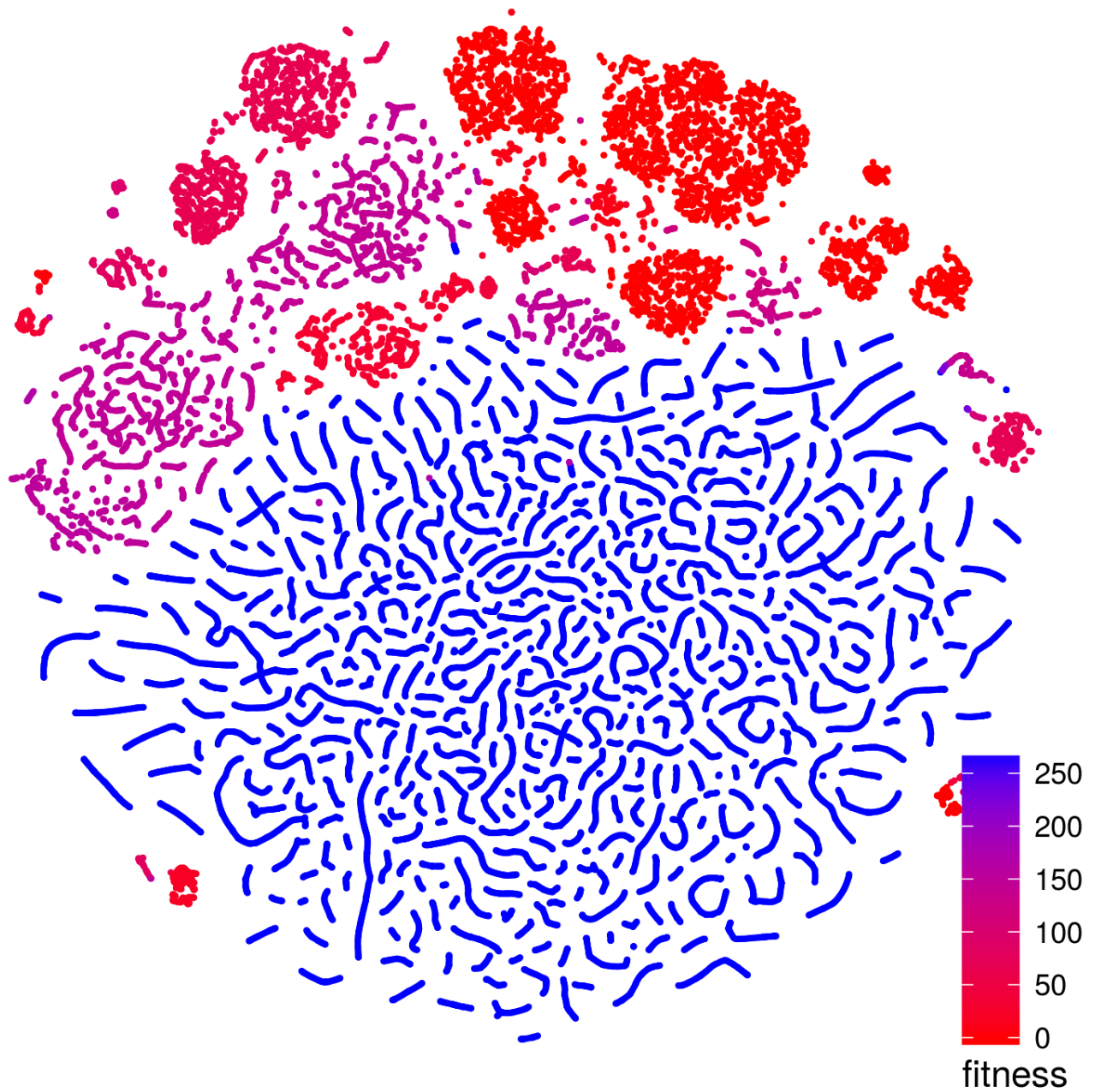


Figure 33: TCAS — Comparison and Boolean Operators — t-SNE — Scatterplot — Runs 200-299

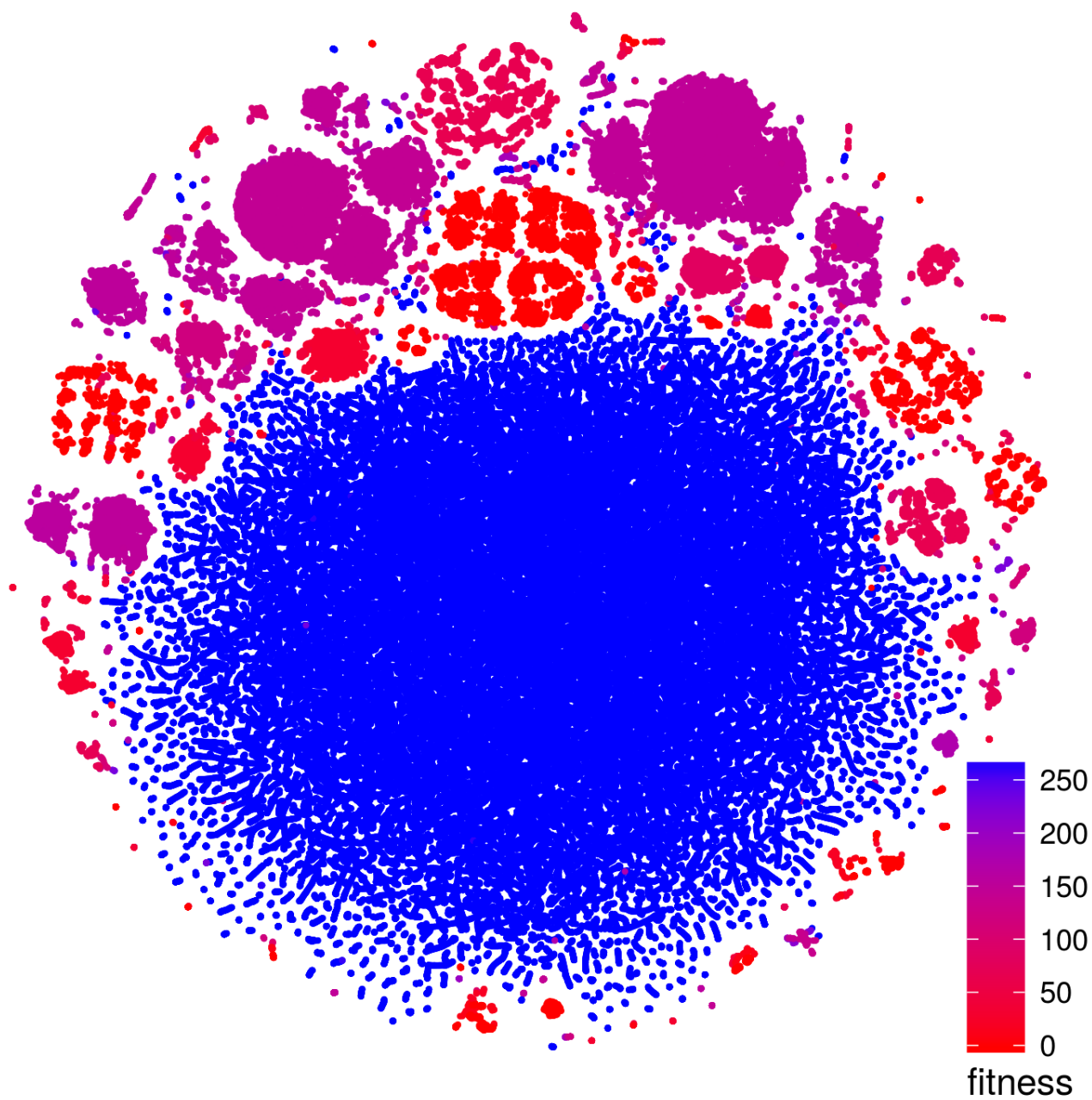


Figure 34: TCAS — Comparison and Boolean Operators — t-SNE — Scatterplot — Runs 0–999



Figure 35: TCAS — Comparison and Boolean Operators — t-SNE — Scatterplot — Runs 0–99

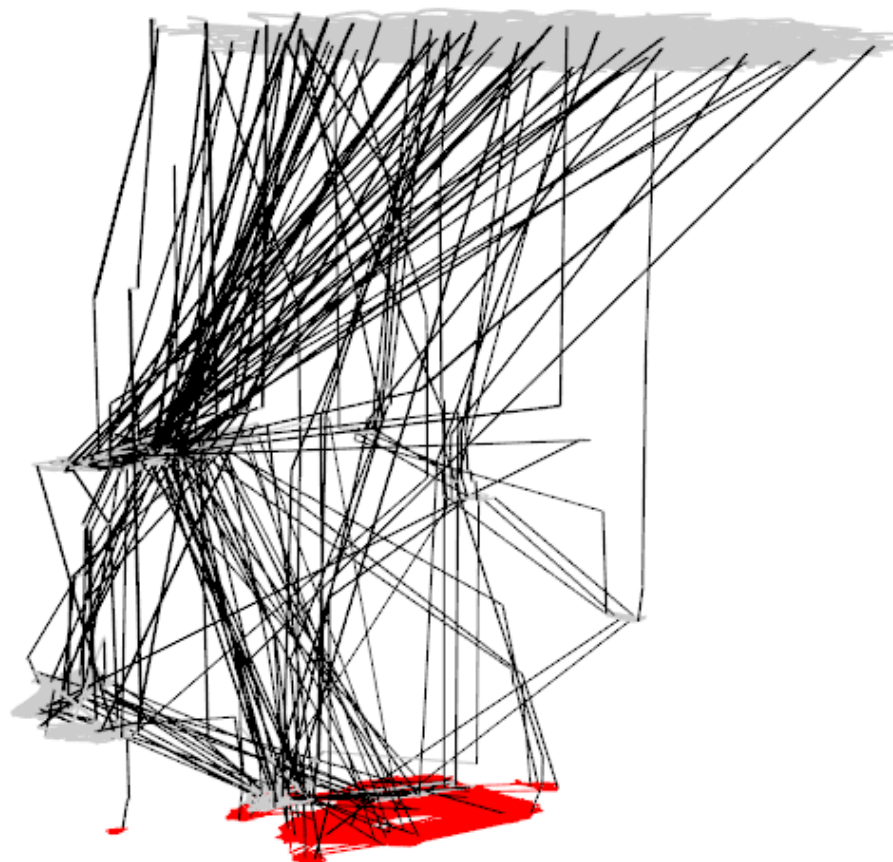


Figure 36: TCAS — Comparison and Boolean Operators — t-SNE — Scatterplot — Runs 100–199



Figure 37: TCAS — Comparison and Boolean Operators — t-SNE — Scatterplot — Runs 200–299