APPENDIX D

Random Problems

Graphical Solutions

SAGA/PSA/Random
Problem 1-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Problem 2-30-3

Simulated Annealing Genetic Algorithm

Pareto Ranked Solutions

Parallel Simulated Annealing

Random Search
Problem 3-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Problem 4-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Problem 5-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Problem 6-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Problem 7-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Problem 8-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Problem 9-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Problem 10-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Problem 11-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Problem 12-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Problem 13-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Problem 14-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Problem 15-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Problem 16-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Problem 17-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Problem 18-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search

PARETO RANK SCATTER- PLOT

0 50 100 150 200 250 300 350 400

Euclidean Distance

0 900 1000 1100 1200 1300 1400 1500

Revenue Deviation

Layer 1
Layer 2
Layer 3
Layer 4
Layer 5
Initial Population

Layer 1
Layer 2
Layer 3
Layer 4
Layer 5
Initial Population

Layer 1
Layer 2
Layer 3
Layer 4
Layer 5
Initial Population
Problem 19-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Problem 20-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Problem 21-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Problem 22-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Problem 23-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Problem 24-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Problem 25-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Problem 26-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Problem 28-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Problem 29-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search
Problem 30-30-3

Simulated Annealing Genetic Algorithm

Parallel Simulated Annealing

Random Search