**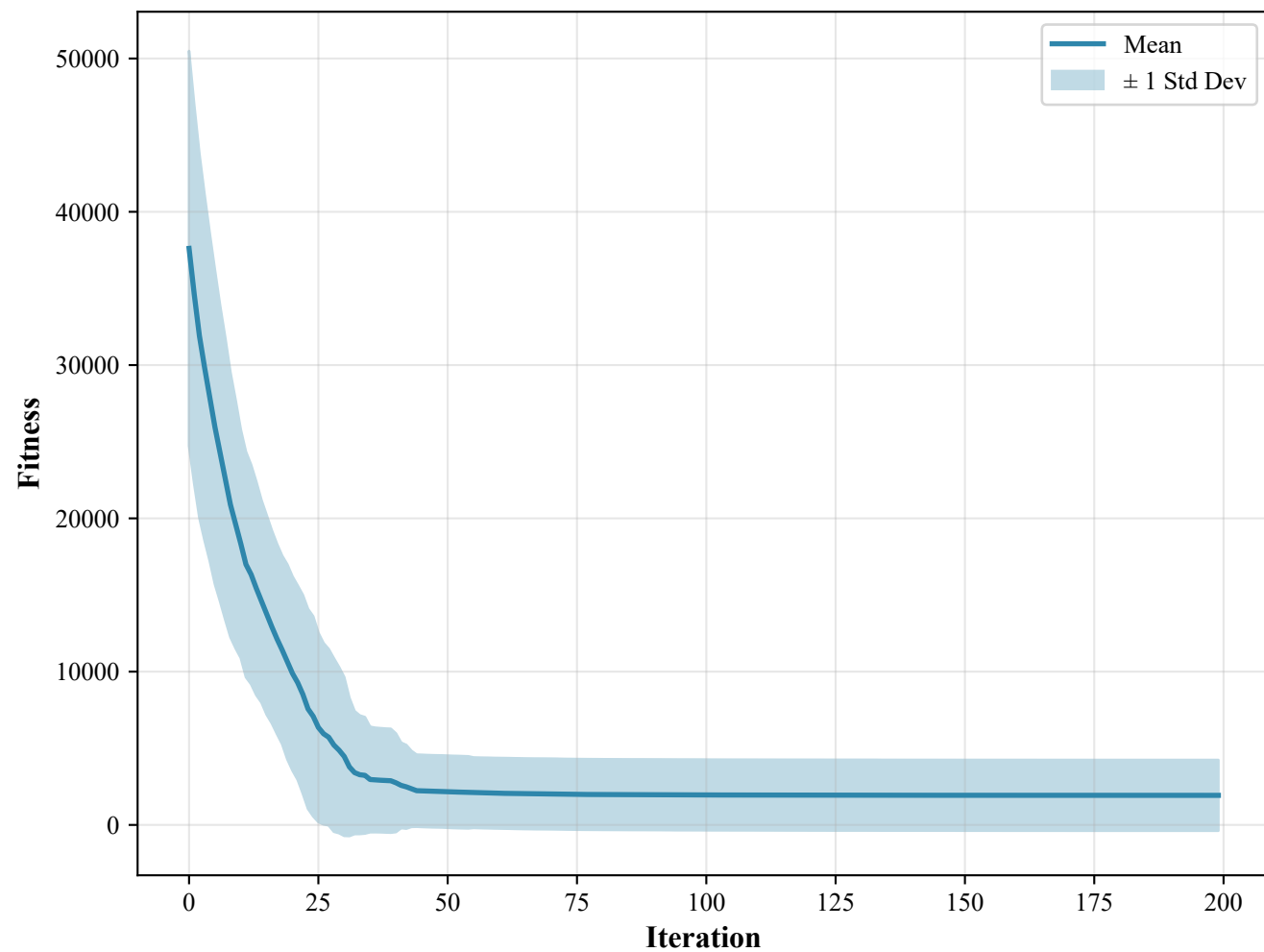Convergence Trajectories: Random vs Greedy Initialization**