Parallel Genetic Algorithms for Single Machine Job Scheduling Problems

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Single Machine n job scheduling problem is examined to minimize the sum of absolute deviations of completion times from a common due date. Parallel genetic algorithms are developed by investigating basic operators for the job sequencing problems. Simple and heuristic crossover schemes are developed based on the some important properties of the scheduling problem. Local improvement techniques are considered to enhance the solution quality. The performance of the parallel genetic algorithm is discussed with computational results.