Algorithms $\mathbf{SwapMove}$ IndexA: int
IndexB: int
Permutation: list<int> BaseNeighborhood ConstructiveHeuristic EvaluationLogic ${\bf Improvement Algorithm}$ InputData: InputData RandomSeed: int InputData: InputData DefineStartEnd(currentSolution) RandomRetries: int EvaluationLogic: EvaluationLogic SolutionPool: SolutionPool Permutation: list<int> DetermineBestInsertion(jobToInsert, cur-EvaluationLogic: EvaluationLogic ${\bf Swap Neighborhood}$ EvaluationLogic: EvaluationLogic SolutionPool: SolutionPool rentSolution) SolutionPool: SolutionPool RNG: random DiscoverMoves() ROS(retries, seed, jobList) NeighborhoodEvaluationStrategy: string NeighborhoodTypes: list<string> Moves: list<Move> MoveSolutions: list<Solution> CheckAllPermutations(jobList) FirstComeFirstServe(jobList)
ShortestProcessingTime(jobList)
LeastProcessingTime(jobList)
NEH(jobList)
Run(inputData, solutionMethod) Neighborhood: dict<string,Neighborhood> Type: string Initialize(evaluationLogic, solutionPool, rng) CreateNeighborhood(neighborhoodType, EvaluateMoves(evaluationStrategy) EvaluateMovesBestImprovement() InsertionNeighborhood EvaluateMovesFirstImprovement() bestCurrentSolution) DiscoverMoves() InitializeNeighborhoods(solution) MakeBestMove() Update(permutation) LocalSearch(neighborhoodEvaluationStrategy, solution) InsertionMove IndexA: int IndexB: int Permutation: list<int> ${\bf Iterated Greedy}$ ${\bf Iterative Improvement}$

Run(solution)

Run(solution)

Solver

ConstructionPhase(constructiveSolutionMethod)
ImprovementPhase(startSolution, algorithm)
RunLocalSearch(constructiveSolutionMethod, algorithm)

