1. The \*.png and \*.bmp files in the data set are task-priority diagrams of the different models of the assembly line. The numbers in the circles represent the task serial numbers, the arrows indicate the immediately preceding and following tasks, the numbers in the brackets indicate the task time for the model, and the letters represent the orientation attribute. L denotes a left task, R denotes a right task, and E denotes an unlimited orientation task.
2. The table column headings in the study results file are shown below：

HA——Heuristic algorithm

AFSA——Artificial fish swarm algorithm

ACO——Ant colony algorithm

NQ——Number of assembly line positions

NW——Number of workstations on the assembly line

E——Equilibrium rate

S——Smoothing index

Mls——Number of multi-line stations

MMTSAL——Mixed-model two-sided assembly line

3. In the task time file, the first and second columns represent the different task times in assembly line 1 and assembly Line 2 respectively, the third and fourth columns represent the proportion of the machining models on the two assembly lines, and the fifth column represents the weighted task time of the tasks on the two assembly lines..In the task time file, the first and second columns represent the different task times in assembly line 1 and assembly Line 2 respectively, the third and fourth columns represent the proportion of the machining models on the two assembly lines, and the fifth column represents the weighted task time of the tasks on the two assembly lines.