Special Issue

Heuristic Planning for Space Missions

Message from the Guest Editors

Autonomous planning is one of the primary research interests in the field of artificial intelligence. A variety of methods have been proposed to solve classical planning problems, such as the coloring problem and the air cargo transportation problem, including forward state space search, graph planning, hierarchical task network planning, etc. Autonomous planning methods have greatly increased the effectiveness of solving planning problems and promoted the application of planning technology. In a classical planning task with the search space of transforming an initial world state into a goal-satisfying state, one common means of reaching a solution is to use the heuristic search method. For the candidate nodes in the search space, the heuristic evaluation strategy can provide certain rules with which to calculate the cost of the nodes based on the target set of the planning problem. Thus enables the planner to eliminate the interference of irrelevant nodes during the search process and select the appropriate action or state to speed up the solution of the planning problem.

Guest Editors

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