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The Replanning System under the Dynamic Condition

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Planning is the one of the center of research since the dawn of the artificial intelligent, and now more and more artificial intelligent planners have been used for controlling the actions. But in the past, the planner was designed by the designers who have already thought what the planners' working condition will be. It seems that the planner can act with that condition, but when the condition changed out of the range of the designer's consideration, the planning system will make error or even won't work. So the limit of approach in the planning system has been indicated by lots of researches, and the system that can generate new planning independently is necessary. In this study, the dynamic plan generation system will be built based on pattern recognition.

In this study, we use the 3-BLOCKS pattern state space, when the condition or goal condition is changed, the system will correct to the new goal condition by considering the condition now. Specifically, the system will recognize the same part of the condition now between the new goal conditions. To layout the new plan by comparing with the condition now, the virtual condition is used to find the plan. By that way, the system is able to deal with a dynamic condition in some extent.