ABSTRACT

A control method, control system, and device for underwater robots includes: based on the movement direction progression elements, comparing the movement tendencies of the underwater robot in different directions to obtain the movement state degree; further constructing a main machine movement direction sequence of the underwater robot; in the main machine movement direction sequence of the robot, analyzing the movement degree of the robot's main movement direction within a preset local time range, comparing the abnormal changes of the movement direction progression elements between different main movement directions of the robot, and obtaining the core machine to-be-adjusted categories; analyzing the to-be-adjusted status of the movement direction progression elements in the same core machine to-be-adjusted category, and conducting attitude control. The invention makes the proportional gain of the PID controller more in line with the requirements of the underwater environment and enables more precise control of the underwater robot during underwater operations.

FIG. 1