ABSTRACT

A remote control intervention method for an underwater robot with adaptive surface capability includes the following steps: analyze the delay and loss of underwater environment data during underwater transmission under the same underwater machine dimension to obtain a underwater transmission data loss degree of each underwater machine dimension; based on the terrain degree data and surface degree data to obtain the underwater terrain signal interference degree; comprehensively consider the underwater environment data under different underwater machine dimensions, the underwater transmission data loss degree, and the underwater terrain signal interference degree to obtain wireless communication interference degree of the underwater robot underwater; analyze the control difficulty of the remote control signal on the underwater robot based on the wireless communication interference degree and the content volume of the machine remote control data to obtain the complete transmission difficulty; further, perform adaptive packetized transmission on the machine remote control data. The invention reduces the underwater interference on remote control, decreases the loss degree of remote control data, and improves the ability of the underwater robot to adapt to underwater surfaces.

FIG. 1