

6.2 - Waterline detection using livewire.

Figure 1 presents an image of a boat, taken by an underwater camera. When constructing boats it is important to estimate the boat's dynamic properties from the wetted area. For calculation of the wetted area we need to find out the waterline. The project's goal is to write a program, which detects the waterline using the livewire algorithm. An example of the waterline is depicted in Fig.2 (the red line).

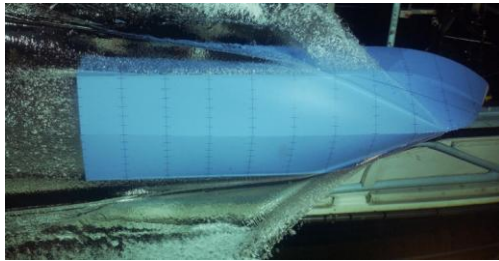


Fig.1 An underwater image.

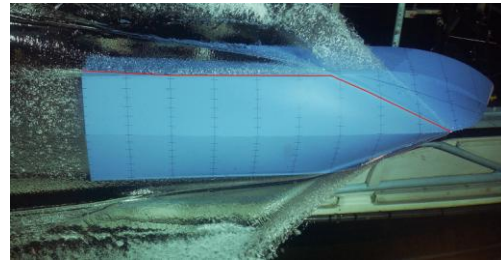


Fig.2 A waterline (in red).

References:

W. Barrett and E. Mortensen, "Interactive live-wire boundary extraction", *Medical Image Analysis* 1(4), pp. 331–341, 1997

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