

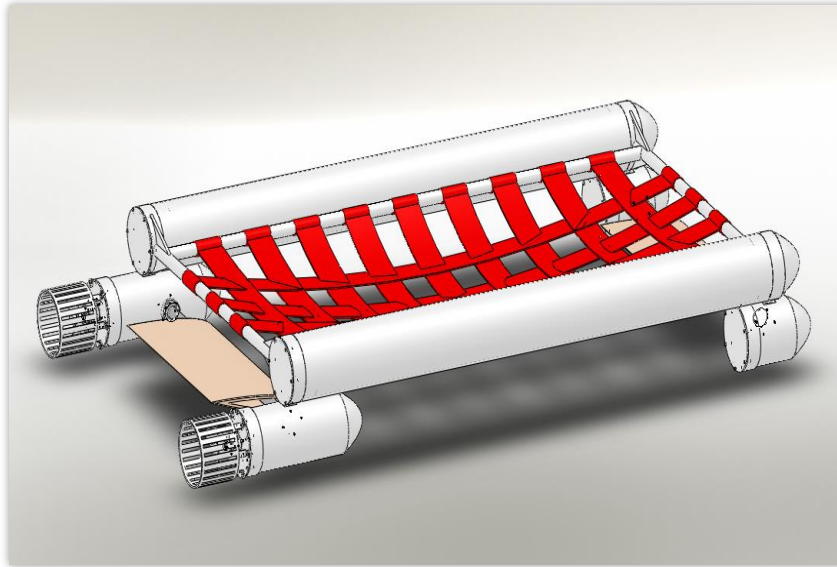
Smart life-saving system

Abstract

In case of ship accidents or unexpected events that involve boats and require the intervention of rescue teams, it happens often the problematic situation of saving people in the open sea, costal areas, rivers or lakes, while risking to put in danger other lives for the adverse meteorological conditions in which these activities occur. The innovative characteristic of the proposed device is to not require the presence of people on board.

Priority Number: TO2012A000362

Politecnico di Torino



ship accidents

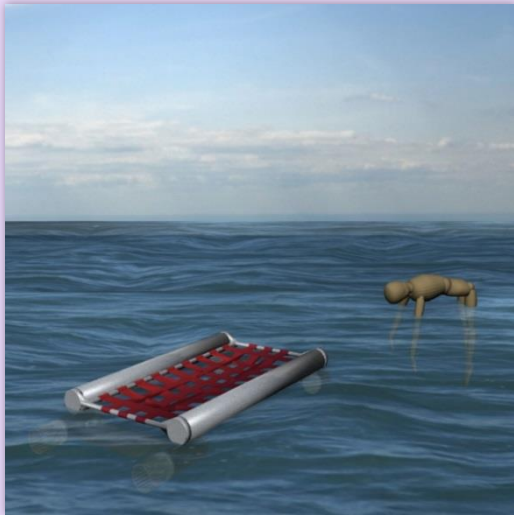
assisted life-saving equipment

rescue team

adverse meteorological conditions

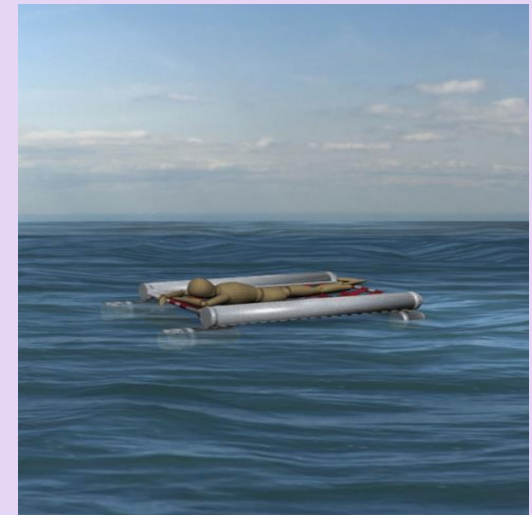
aquatic robot

Smart life-saving system



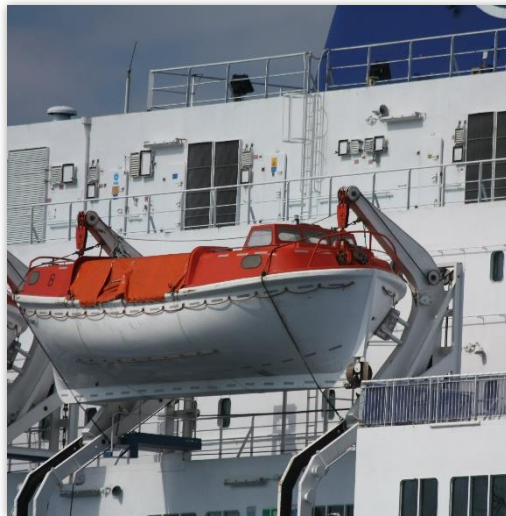
Description

In case of ship accidents or unexpected events that involve boats, it happens frequently the problematic situation of saving people in the water, while risking to put in danger other lives due to the adverse meteorological conditions. The proposed invention consists of an aquatic double hull robot, connected to a rescue system - that can be equipped with a control unit or activated remotely - capable of managing the search and retrieval activities in an autonomous way.



Applications

The device is a semi-automatic saving equipment for boats and can be used as rescue instrument also for lakes and coastal areas in the case of disasters or natural calamities. Because it does not require the active participation of the victim, the invention can be used to recover unconscious people from the beach, in the open sea, rivers, lakes or after floods and mudslides. The proposed system is also easy to control, since it has a small moments of inertia.



Advantages

The innovative characteristic of the presented device is to not require the presence of people on board, making it considerably safer than other inventions of this kind which are commercially available on the market. Furthermore, the smart life-saving system can move underwater during the search phase, a characteristic that makes it very effective for a rapid intervention in all those areas where strong winds and surface currents may prevent a fast rescuing of the victim.