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Study on Automatic Position Adjustable Elevator for Workboat

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Summary: The paper is concerned with an automatic position adjustable elevator to realize easy and safe passage between a workboat and a floating structure or an ocean platform. The elevator attached to the workboat is controlled to reduce the relative displacement between the workboat and the structures. The displacement is measured by image processing technique and is sent to the controller of the elevator. Model experiments were carried out to verify the performance of the system and successful results are shown. In addition, robustness of the image processing system is discussed.

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