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Crew Workload Analysis of Berthing Operation

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Summary: The present paper proposes a crew workload analysis method of berthing operation. The method helps identifying the cause of crew workload variation based on the analysis of multiple data obtained from berthing operation. It consists of mental workload analysis, crew behavior analysis and ship movement analysis. Mental workload is estimated from heart rate variability measured by physiological sensor. Crew behavior is recorded by handy and fixed video cameras to analyze frequency of behavior and response time. Ship movement is measured with two GPS receivers to calculate turning and distance to pier. Based on these data, mental workload is compared with other measures. The method is applied to three berthing operations and the causes of workload change during berthing operation are partly cleared.

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