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Evaluation of Ride Comfort of High-Speed Passenger Craft (2nd report)

-Measurement and Analysis of Psychological Response-

[Masakazu Arima](#) and [Yuuki Tamura](#)

(Received February 28, 2006)

Summary: The purpose of this study is to establish a method for evaluating ride comfort of high-speed passenger crafts. The authors have conducted experiment on board a high-speed catamaran running across the Bay of Osaka, Japan. Measuring items were ship motion, and subjects' electrocardiogram and facial expression as human physiological responses to an oscillatory environment. Subjects' psychological response was also investigated by means of a questionnaire at 5-minute intervals during the voyage. The previous report demonstrates that lateral motion is necessary to estimate ride quality of a high-speed passenger craft. And the proposed 'ride comfort index' RCI was found to be a useful index for the evaluation of ride comfort. The present paper deals with psychological response in a ship environment. Mental-state affecting to the evaluation of ride comfort indirectly were investigated by a keyword-extraction method. Statistical analysis methods were applied to clarify the relationship between subjective psychological response and ride comfort of a craft. To conclude, the psychological measurements proposed here is effective to extract several factors affecting the evaluation of ride comfort.

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