## Prediction of First-Order Vessel Responses with Applications to Decision Support Systems - DTU Orbit (08/11/2017)

## Prediction of First-Order Vessel Responses with Applications to Decision Support Systems

The paper presents a practical and simple approach for making vessel response predictions. Features of the procedure include a) predictions which are scaled so to better agree with corresponding true, future values to be measured at the time the predictions apply at; and b) predictions that are assigned an uncertainty measure to reflect a level of confidence. The approach is tested with full-scale data and the obtained results/predictions agree well with measured values. Potentially, the procedure is therefore very useful in future developments of general decision support systems.

## **General information**

State: Published Organisations: Department of Mechanical Engineering, Fluid Mechanics, Coastal and Maritime Engineering, Tokyo University of Marine Science and Technology Authors: Nielsen, U. D. (Intern), Iseki, T. (Ekstern) Number of pages: 11 Publication date: 2015

## Host publication information

Title of host publication: Proceedings of the World Maritime Technology Conference Publisher: Society of Naval Architects and Marine Engineers, The Main Research Area: Technical/natural sciences Conference: World Maritime Technology Conference 2015, Providence, Rhode Island, United States, 03/11/2015 -03/11/2015 Ship responses, Predictions, Sea state, Response spectra, Uncertainty measure Source: PublicationPreSubmission Source-ID: 119491521

Publication: Research - peer-review > Article in proceedings – Annual report year: 2015