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[TOP](#) > [Available Volumes](#) > [Table of Contents](#) > [Abstract](#)

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A Research on Method of Design Process Analysis for Knowledge Transfer in Ship Design (2nd Report)

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Summary: A methodology to identify crucial tasks of ship design process is proposed in the first report. Crucial tasks of ship design process are identified in the standardized manner to support design knowledge transfer. In this paper, the proposed methodology is implemented as a web based questionnaire system to conduct a large questionnaire-based survey in design department of a shipyard. Unstructured interview after a questionnaire-based survey exhibited the essential characteristics of crucial tasks identified by the methodology. The characteristics in this paper are following three items: Trade-off such as amount of steel product and man hour, capability to extract 3D model and communication skills with outside of his/her team. The survey also pointed out some part of crucial tasks are outsourcing in Japanese shipyards. The proposed methodology is verified in this large empirical study.

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