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Development of Knowledge Transfer Support Framework Based on Design Data

-A Case Study on Marine Propeller Design-

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Summary: This paper proposes a framework of transferring knowledge of parametric design. The software provided in the framework records input/output data of each calculation executed repeatedly in an engineer's try-and-error process. Design knowledge and know-how are acquired by visualizing the computation data and by interviewing the design engineer. The framework also proposes a set of standardized questions for structured interview based on recorded data. The proposed framework is applied to marine propeller design process. The result illustrates the effectiveness of design knowledge transfer. Moreover, it is considered that the system can be introduced to organizations with low cost and few man hours.

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