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Development of a mode split model in international freight transport between Japan and East Asian countries

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Summary: It is crucial for the shipbuilding industry to develop the new types of ships that can enlarge the share of ships in the freight transport market. In order to address this problem, it would be useful to develop computer-based decision making models including the decision making of cargo owners, shipping companies and the shipbuilding industries. In this paper, the decision making of cargo owners is modeled using an aggregate logit model within the framework of freight transport mode choice problem between Japan and East Asian countries. The model is then validated using an international logistics database which deals with the mode share between ships and airplanes, and sensitivity analyses are also undertaken in freight charge and travel speed. Results indicate that the model developed can offer the good performance with its parameter values being appropriately estimated as well as that the mode share of ships are influenced by their freight charges and speeds.

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