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USING GAME THEORY FOR CHOOSING THE OPTIMAL STRATEGY FOR IMPROVING SHIP'S ENERGY EFFICIENCY

Ship Energy Efficiency is the IMO topic of the day since 1997 after Kyoto Protocol issuing. All ships with gross tonnage 400 and over have to meet MARPOL Annex VI requirements. The Companies create and develop their own strategies based on personal experience.

The article describes a method for evaluation of the energy efficiency of maritime transport in the spirit of the Kyoto Protocol since 1997 and Paris Conference since 2015 and IMO requirements to the Maritime industry. The assessment uses mathematical game theory and makes it possible for quickly and easily selection an appropriate vessel operating strategy in order to meet both the ever-increasing international demands and the efforts of the shipping companies to reduce fuel expenses.

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