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**The Title of Dissertation** : Forecasting credit risk of investment and development of Vietnamese container fleets  
**Major in** : Fleet Organization and Management  
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**Educational Institution** : Vietnam Maritime University

### **Executive Summary**

#### **1. Purpose and Object of Study**

*Purpose:* The purpose of this dissertation is to provide a comprehensive forecast regarding forecasting credit risk (FCR) in development and investment of the Vietnamese container fleets in order to aid credit associations in making credit decisions.

*Study object:* The main object of the dissertation is FCR in loaning for investment and development of Vietnamese container vessel projects. To study this object, the paper will firstly cover theoretical basis before going to credit risks, models and methodology for credit forecasting, and lastly the current state of credit risk of container vessel projects. The author will also examine a number of credit institutions operating in Vietnam.

#### **2. Research Methods**

To achieve the above objective, the author shall use the following methods: Sampling, statistical and comparative methods; Mathematical statistics testing method; Logical and dialectical methods; Mathematical method using Binary Logistic regression model to build predictive function model (SPSS.20 software shall be used as a support tool).

### **3. Main Findings and Conclusion**

Within the scope of the research, this dissertation has the following major contributions:

*Firstly:* The thesis systematized the theoretical basis of forecast, risk and credit risk. At the same time, the author analyzed in depth the meaning and pointed out the characteristics, nature and relationship among the above terms.

*Secondly:* The thesis has added a new and specialized definition of "Credit risk in container ship investment" and a new definition for the concept "Credit risk forecasting". From these concepts, the nature between credit forecast and risk is clarified, and therefore helping forecasting science to be more diversified, particularly in the field of credit risk in development and investment. Vietnam's container fleets

*Thirdly:* The thesis has specified credit risks in developing container ships, identifying and evaluating factors affecting credit risk in container ship investment, thereby giving the basic model criteria to develop and build predictive models suitable to specific characteristics.

*Fourthly:* The thesis has studied the current situation of credit risk in development and investment in general as well as the current situation of credit risk forecasting in investment and development of the container fleet of current credit institutions, thereby pointing out the advantages and limitations to find a solution for necessary changes.

*Fifthly:* The thesis has built an in-depth forecasting model for the field of investment and development of Vietnam's container fleet:

$$P_i = E(Y = 1|X_i) = \frac{e^{-3.696 - 0.006X_2 + 0.059X_3 - 0.049X_4 + 0.154X_5 - 0.052X_7 - 0.953X_9}}{1 + e^{-3.696 - 0.006X_2 + 0.059X_3 - 0.049X_4 + 0.154X_5 - 0.052X_7 - 0.953X_9}}$$

This is a tool to realize the objective of the thesis, which is to provide forecasts for credit risks for this investment sector so that credit institutions as well as businesses can have an additional basis before making business decisions.

*Kind regards!*

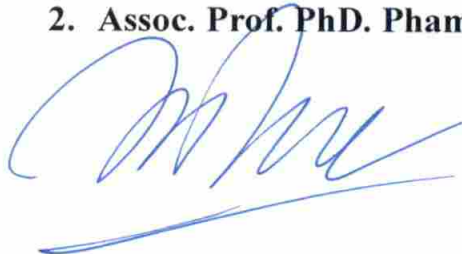
*Hai Phong, 05 August 2020*

**Supervision Team**

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**PhD Candidate**



