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Abstract ABSTERACT
In the context of management, the economic power of military expenditure stands a higher position than defense capability, even though the priority of military is on the issue of national security. As a result, Taiwan’s defense expenditure should be used to enlarge the requirement of domestic economics which can accelerate economic growth, increase the economical power, and then get feedback on defense expenditure.
The research adopts the concept above and use domestic economic and social indicators, including economic growth, production, price, trade, labor and so on. Economic Growth is composed of gross national production (GNP) and economical growth rate. Production is composed of annual change rate of industrial production. Price consists of annual change in wholesale price index and Consumer Price Index. Labor is described by the rate of unemployment. In the thesis, correlation analysis, coefficient of determination and multiple linear regression modeling methods have been applied to Taiwan’s defense expenditure.
The result shows that M3 multiple linear regression models is appropriate and accurate to predict economic and social indicators. In other words, Taiwan’s defense expenditure is largely influenced by Gross National Production, annual change rate of industrial production, annual change of Consumer Price Index, and rate of foreign exchange. The contribution of this thesis is to provide a reference for policy making in Taiwan’s defense expenditure.
Keyword： correlation analysis, coefficient of determination, multiple linear regression models.
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