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ASSESSMENT OF COORDINATED DEVELOPMENT OF ENVIRONMENT-ECONOMY SYSTEM IN CHINA: STATISTICAL ANALYSIS AND COMBINATION PREDICTION

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Abstract

Balance and coordination between environment and economy can promote the sustainable development of society. By using SBM model which considers non-desirable output and econometrical model on the coordination degree of environment - economy system, the article makes quantitative analyses on the coordination conditions between environment and economy in China during the period of 1992 to 2010 and then calculates annual coordination degrees between environment and economy; subsequently, through the combination forecasting method based on the Induced Ordered Weighted Averaging (IOWA) operators, these small sample data are predicted; finally, according to results presented above, policy suggestions are given to achieve coordinated development of environment-economy system of China in the future.

Key words: combination prediction, coordination degree, small sample, undesirable outputs

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