

ABSTRACT

Economic crisis that had happened at 1997-1998 in Indonesia stimulates the researchers to studied more because economic is a foundation in a country, so if economic crisis happened then many sectors will get huge impact. Economic that came from words 'ecos' and 'nomos' consist of value of life which can be used as economic indicator. The economic indicator are GDP (Gross Domestic Product), inflation, population, and oil import per year from 1980-2011. They will be tested using time series analysis and system dynamic optimized by genetic algorithm. In this research give result 93% - 99% accuracy in training and until 90% accuracy for testing, with these results proved that the prediction system able to fit data in finding historical pattern with small error. Error that had been gotten in this system was caused by the total data (32 data) that had been used is too little. Another reason is come from the side of the economic itself, where the economic science is a chaos and complex system, so the error cannot be avoided.

Keywords: prediction system, economic crisis, system dynamic, time series analysis, genetic algorithm.