

Abstract

Real world often providing data which has unbalanced distribution between each class. In data mining, this problem caused a classifier fail to classify minority class, and sometimes this minority class is more valuable than the majority class. Sampling approach which can optimize classifier in classifying minority class can be a solution for this problem. Artificial Neural Networks as a classifier in data mining has its own problem in deciding its structure and connection weights. Evolutionary Programming can be a solution for optimizing the structure and the connection weights. The combination of Evolutionary Programming and Artificial Neural Networks is called Evolving Artificial Neural Networks.

Keywords: artificial neural networks, evolutionary programming, evolving artificial neural networks, imbalanced class classification, sampling.