Evolved Program Analytical Forecasts
OTT ID #1239

APPLICATIONS

This method has been used successfully for work in short-term forecasting. It may be used for any weather variable, such as temperature, precipitation, wave height, wind velocity, or severe storms.

TARGET PROBLEMS

Preparations for a disruptive event is often expensive and companies are better positioned to take appropriate action when the probability of such an event is known. The computation time for the forecasts is very short; decisions can be made in real-time.

KEY BENEFITS

Fast – Enables decisions to be made in real-time
Improved Accuracy – Forecasts are more accurate than industry benchmarks
Efficient – Easily manages large amounts of data
Less labor intensive – Requires the supervision of only one skilled forecaster
Reliable – Produces consistent results

TECHNOLOGY

This Evolved Program Analytical Forecasts method is an automated process that uses any large data set as an input, and algorithms evolve by a method called Simulated Evolution giving the probabilities of different outcomes based on the information desired. This new method also accounts for the spatial dimension of the data. The approach is based upon predator-prey ecosystem dynamics, in which the predators fill the role of regulators of the population that carries the forecast information. A forecast solution carrier is produced by using steady population, which drives progress towards improved forecast solutions. An automated process which needs the supervision of only one trained forecaster brings down costs and makes short-term forecasts accessible to a greater number of businesses and organizations.

INTELLECTUAL PROPERTY

This is a copyrighted work available for developmental research support and licensing under either exclusive or non-exclusive terms. We are interested in companies who would like to team up to create a website that can be used globally. We are also interested in licensing the algorithms to companies as well as seeking specific companies and industries in need of specialized forecasting. The technology is.

INVENTOR

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