

FDML-Fitness: FITNESS FUNCTION DERIVED USING MACHINE LEARNING AND DEEP LEARNING.

ABSTRACT

My invention "**FDML-Fitness**" A method for using machine learning and deep learning to solve complex problems having either a "approx +positive" result (the event occurred) or a "approx -negative" result (the event did not occur), in which the modern probability of a approx positive result is very low and the consequences of the positive result are significant. The training and testing data is obtained and a other set , subset of that data is distilled for application to a deep learning system. The training, testing data includes various records corresponding to the positive result, some nearest neighbors from the records corresponding to the negative result, and some other records corresponding to the negative result. The machine learning , deep learning system uses a co-evolution approach to obtain a rule set for predicting results after a number of cycles. The "**FDML-Fitness**" uses a fitness function derived for use with the type of problem, such as a fitness function based on the sensitivity and positive predictive value of the rules. In this prediction the fitness function data is fully mapped in Indian human only.