

Designing neural networks topologies is a complicated problem when we consider general network structures. Evolutionary algorithm can provide us with interesting solutions of this problem. This work introduces

an evolutionary algorithm for evolving neural networks. One of the possible algorithms for evolving neural networks is the NEAT algorithm. The goal of this work is to modify and enhance abilities of the NEAT algorithm. Improvements are focused on utilizing position of a neuron in network, improving crossover procedure and introducing solution of algorithm parallelization that preserve abilities of both NEAT and the new algorithm.