

عنوان مقاله:

Artificial Neural Networks Generation Using Grammatical Evolution

محل انتشار:

بیست و یکمین کنفرانس مهندسی برق ایران (سال: 1392)

تعداد صفحات اصل مقاله: 5

نویسندگان:

Khabat Soltanian - *Department of Software Engineering, University of Kurdistan, Sanandaj*

,Fardin Akhlaghian Tab - *Department of Engineering, University of Kurdistan, Sanandaj, Iran*

Fardin Ahmadi Zar

Ioannis Tsoulos

خلاصه مقاله:

in this paper an automatic artificial neural network generation method is described and evaluated. The proposed method generates the architecture of the network by means of grammatical evolution and uses back propagation algorithm for training it. In order to evaluate the performance of the method, a comparison is made against five other methods using a series of classification benchmarks. In the most cases it shows the superiority to the compared methods. In addition to the good experimental results, the ease of use is another advantage of the method since it works with no need of experts

کلمات کلیدی:

artificial neural networks, evolutionary computing, grammatical evolution, classification problems

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/208695>

