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A Neural-Network Solution to the Concentrator Assignment Problem

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Abstract:

Networks of simple analog processors having neuron-like properties have been employed to compute good solutions to a variety of optimization

prob(cid:173) lems. This paper presents a neural-net solution to a resource allocation prob(cid:173) lem that arises in providing local access

to the backbone of a wide-area com(cid:173) munication network. The problem is described in terms of an energy function that

can be mapped onto an analog computational network. Simulation results characterizing the performance of the neural computation are also presented.

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