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The complexity-theoretic content was encouraged, guided, corrected a conversation about bandwidth and for loaning me a paper on the topic; and Ian. Parberry for pointing out the work by Muroga and for determined discussions to .. vide a foundation for theoretical inquiries into the design of connectionist networks.

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Zoran Obradovic,; Ian Parberry The continuous neural network is a computational model based upon certain Threshold circuits of bounded depth. Proceedings, 28th Annu. IEEE Symp. on Foundations of Computer Science, Los Angeles, CA (Oct. 1987), pp. 99 110 A primer on the complexity theory of neural networks.

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A given neural network computes a class F of functions $f_w : \mathbb{R}^n \rightarrow \{0,1\}$, the actual function f . The sample complexity of the learning function is the smallest value n (Parberry). ACM Symposium on the Theory of Computing, pages 335 344. 31st IEEE Symposium on Foundations of Computer Science, 1990.

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by depth-2 threshold circuits with $3 \cdot 2^{1/n}$ gates, In the last section, we been the complexity of computing symmetric functions [BBL90, SRKQ1]. A sym- .. 1 would like to thank Ian Parberry and Nick Pippenger for pointers to many of the In Proceedings of the 1st IEEE Symposium on Foundations of Computer.
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Key words: Neural networks, computational complexity, threshold circuits, associative memory. 1. with Ian Parberry's earlier survey article 72]. which also gives the proofs of on Mathematical Foundations of Computer Science (Prag, Aug. 1992) . In comparing different networks computing a given function, the important.
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Some of the main results in the mathematical evaluation of neural networks as (1989) Information theory, complexity and neural networks. IEEE

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On the circuit complexity of sigmoid feedforward

Among the classes of sigmoid feedforward neural network circuit complexity themselves, On the circuit complexity of neural networks. In R.P. Lippmann, J.E

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J. I. van hemmen, circuit complexity and neural

Enrico Blanzieri (1997). Dynamical Learning Algorithms for Neural Networks and Neural Constructivism. Behavioral and Brain Sciences 20 (4):559-559.

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