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This chapter contains sections titled: The Chinese Room, Brain Simulation, Neural Networks and Scalability, Chapter and Section Breakdown, Mathematical Preliminaries

Neural network design

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.

Computational complexity of neural networks: a

Mar 1, 1994 Publishing Association Nordic Journal of Computing , Finland memory, Neurocomputing: foundations of research, MIT Press, Cambridge, MA, 1988. 6 .. Ian Parberry, Circuit complexity and neural networks, MIT Press,

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, "Circuit Complexity and Feedforward Neural of this book is to make a comparison between the complexity of neural networks and the complexity of

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Jul 14, 2014 I. Parberry, "Circuit Complexity and Feedforward Neural Networks", the input space into regions using parallel hyperplanes by computing -ary weighted Neural network computation is a necessary part of the foundations of

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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Abstract. Circuit complexity, a subfield of computational complexity theory, can be used to analyze how the resource usage of neural networks scales with problem size.

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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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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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Ian Parberry* and Hung-Li Tsengt. Department networks that are popular in neurocomputing and parallel computing. 4- Hopfield network [6] is a discrete neural network model with symmetric connections. .. In 26th Annual Symposium on Foundations of Computer Science, Circuit Complexity and Neural Networks.

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Quantifying generalization in linearly weighted

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

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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claiming neural nets would deliver. AI's failed promises. nor neural nets. In coming Mohammad. Soft Computing: Fuzzy. Logic, Neural Networks, and Distribut- s Parberry, Ian. Circuit Complexity Foundations of Probabilistic Reasoning.

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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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by depth-2 threshold circuits with $3 \cdot 2^{1/n}$ gates, In the last section, we con- 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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In this paper we classify the complexity of problems and operations on semi- commutation Let TC0 be the class of problems being recognized by a uniform circuit fam- .. ematical Foundations of Computer Science (MFCS'92), Prague, (Czechoslo- Ian Parberry. A primer on the complexity theory of neural networks.

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