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TGN: Temporal Graph Networks

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Foundations about neural

network architecture came

three decades ago. In 1989,

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that if a neural network has only a single computational layer,

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Key chapters also discuss the computational complexity of neural network learning, describing a variety of hardness results, and outlining two efficient, constructive learning algorithms. The book is self-contained and accessible to researchers and graduate students in computer science, engineering, and mathematics.

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Theoretical Foundations
Chap.8, 9, 10, 11 Martin
Anthony and Peter L.
Bartlett 2017.08.14

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One of the earliest important theoretical guarantees about neural network architecture came three decades ago. In 1989, computer scientists proved that if a neural network has only a single computational layer, but you allow that one layer to have an unlimited number of neurons, with unlimited connections between them, the network

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Martin Anthony, Peter L. Bartlett, "Neural Network Learning: Theoretical Foundations" Cambridge University Press | 3119-19-31 | ISBN: 163333963X | 616 pages | PDF | 9, 6 MB This important work describes recent theoretical advances in the study of artificial neural networks. It explores probabilistic models of

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This important work describes recent theoretical advances in the study of artificial neural networks. It explores probabilistic models of supervised learning problems, and addresses the key statistical and computational questions. Chapters survey research on pattern classification with binary-output networks,

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Supervised Learning. This

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book is about the use of artificial neural networks for supervised learning problems. Many such problems occur in practical applications of artificial neural networks. For example, a neural network might be used as a component of a face recognition system for a security application.

~~Introduction (Chapter 1)~~

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Abstract: Classical theory that guides the design of nonparametric prediction methods like deep neural networks involves a tradeoff between the fit to the training data and the complexity of the prediction rule. Deep learning seems to operate outside the regime where these results are informative, since deep

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Foundations
networks can perform well
even with a perfect fit to
noisy training data.

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