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chains and their applications, with a particular focus

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Joseph A. (2020) Markov Chains. In: Markov Chain Monte Carlo Methods in Quantum Field Theories.

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The theory of Markov chains, although a special case of Markov processes, is here developed for its own sake and presented on its own merits. In general, the hypothesis of a denumerable state space, which is the defining hypothesis of what we call a "chain" here, generates more clear-cut questions

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A Markov chain is a stochastic model describing a sequence of possible events in which the probability of each event depends only on the state attained in the previous event. A countably infinite sequence, in which the chain moves state at discrete time steps,

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gives a discrete-time Markov chain (DTMC). A continuous-time process is called a continuous-time Markov chain (CTMC).

Markov chain - Wikipedia

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In probability, a (discrete-time) Markov chain (DTMC) is a sequence of random variables, known as a stochastic process, in which the value of the next

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variable depends only on the value of the current variable, and not any variables in the past. For instance, a machine may have two states, A and E.

Discrete-time Markov chain - Wikipedia

Suppose that π is a probability measure on the probability space [equation], h is a measurable function from $S \rightarrow R$, and one is interested in the calculation of the expectation $\bar{h} = \int \dots$

Markov Chain Monte Carlo | SpringerLink - link.springer.com

A game of snakes and ladders or any other game whose moves are determined entirely by dice is a

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Markov chain, indeed, an absorbing Markov chain. This is in contrast to card games such as blackjack, where the cards represent a 'memory' of the past moves. To see the difference, consider the probability for a certain event in the game.

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