

**Ferrari, P. A.**

**Ergodicity for a class of probabilistic cellular automata.** (English) Zbl 0743.68100  
Rev. Mat. Apl. 12, No. 2, 93-102 (1991).

Summary: We study a class of probabilistic cellular automata (PCA) which includes majority vote models, discrete time Glauber dynamics and combinations of these processes with mixing dynamics. We give sufficient conditions for the ergodicity of the processes. The method is based on a graphical representation and the construction of a “generalized dual process”.

**MSC:**

**68Q80** Cellular automata (computational aspects)

**60K35** Interacting random processes; statistical mechanics type models; percolation theory

Cited in **2** Documents

**Keywords:**

ergodic systems; generalized duality; probabilistic cellular automata; graphical representation