

CENTRAL LIMIT THEOREMS FOR BRANCHING MARKOV PROCESSES

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In this paper we establish spatial central limit theorems for a large class of branching Markov processes with general branching mechanisms. These are generalizations of the spatial central limit theorems proved in [1] for branching OU processes with binary branching mechanisms, and generalizations of limit theorems for multi-type branching processes developed in [2, 3, 4]. Compared with the results of [1], our central limit theorems are satisfactory in the sense that the normal random variables in our theorems are nondegenerate.

REFERENCES

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