Crane, Harry
Lipschitz partition processes. (English) Zbl 1329.60250


To describe a broader class of processes, the author incorporates ideas from the coagulation-fragmentation literature. These processes are called Lipschitz partition processes.

The construction of the previous processes from Coag and Frag operators is provided. These operators are Lipschitz continuous and associative. A family of processes is defined by a repeated application of random Lipschitz continuous maps that act on the space of partitions.

Reviewer: Sophia L. Kalpazidou (Thessaloniki)

MSC:
60J25 Continuous-time Markov processes on general state spaces
60G09 Exchangeability for stochastic processes
60G55 Point processes (e.g., Poisson, Cox, Hawkes processes)
60G57 Random measures
92D10 Genetics and epigenetics

Keywords:
Markov processes; Lipschitz partition processes; coalescent process; de Finetti’s theorem; exchangeable random partition; iterated random functions; paintbox process; Poisson random measure

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References:


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