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**Stochastic
Continuous
Time
Neurite
Branching
Models
with Tree
and
Segment**

Dependent Rates

Ronald A.J. van Elburg

(Submitted on 4 Oct 2010)

In this paper we introduce a continuous time stochastic neurite branching model closely related to the discrete time stochastic BES-model. The discrete time BES-model is underlying current attempts

to
simulate
cortical
development,