Presynaptic Neural Information Processing

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Abstract:
The potential for presynaptic information processing within the arbor of a single axon will be discussed in this paper.

knowledge about the activity dependence of the firing threshold, the conditions required for conduction failure, and the

similarity of nodes

Current

along a single axon will be reviewed. An electronic circuit model for a site of low conduction safety in an axon will be presented. In response to single frequency stimulation the electronic circuit acts as a lowpass filter.