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Abstract:	Brains are complex networks of neurons that enable animals to survive and thrive in their environment. They are capable of sensory transduction, information processing, memory storage, and motor output. However, the manner by which they perform these functions is not well understood. Computational neuroscientists attempt to construct models of the brain that will eventually address these, through various approaches. A promising new approach in this era of burgeoning data is the use of artificial neural networks. In this work, the author explores the applicability of artificial neural networks to the understanding of biological neural networks by modelling a simple circuit - thermotaxis, in a simple organism - C. elegans.
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