

عنوان مقاله:

A New Approach in IT With wireless Sensor networks

محل انتشار:

كنفرانس بين المللى علوم و مهندسى (سال: 1394)

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خلاصه مقاله:

Neurons are the processor elements constituting an artificial neural network. Each biological neuron consists of several components: Dendrite, Soma, axon and synapse. This paper presents a method for using wireless sensor network based on biological neuronal structures to create smart spaces. This method uses two different types of interconnected wireless nodes to implement the behavior of neuron components, i.e. dendrite, axon, soma and synapse. The transmission between these nodes required for such structure is created by distributed beamforming techniques. These techniques enable neurons to perform several data transmissions simultaneously. Using this method, it is shown that beamforming and computation on the channel can be effectively used to create intelligent sensor systems with minimal computational power

کلمات کلیدی:

Computational neuroscience, neuron networks, distributed adaptive beamforming, artificial intelligence, collaborative communication

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