
Fuzzy Spiking Neural Networks Cornelius Glackin

fuzzy spiking neural network for abnormality detection in ... - fuzzy spiking neural network for abnormality detection in cognitive robot life supporting system dalai tang *, tong yew tangt,j'anos botzheim , naoyuki kubota , toru yamaguchi* **analog-digital self-learning fuzzy spiking neural network ...** - analog-digital self-learning fuzzy spiking neural network in image processing problems 359 rest potential is called refractory period. within this period, appearance of another spike is **analog-digital self-learning fuzzy spiking neural network ...** - image processing 358 designing hybrid intelligent systems based on the new generation of artificial neural networks attracts both practical and theoretical interest. **classification using a fuzzy spiking neural network** - classification using a fuzzy spiking neural network . cornelius glackin, liam mcdaid, liam maguire, and heather sayers. university of ulster, faculty of engineering, **receptive field optimisation and supervision of a fuzzy ...** - receptive field optimisation and supervision of a fuzzy spiking neural network abstract this paper presents a supervised training algorithm that implements fuzzy reasoning on a spiking neural network. neuron selectivity is facilitated using receptive fields that enable individual neurons to be responsive to certain spike train frequencies and behave in a similar manner as fuzzy membership ... **adaptive fuzzy spiking neural p systems for fuzzy ...** - this paper, called adaptive fuzzy spiking neural p systems (in short, afsn p systems). the afsn p systems not only can model weighted fuzzy production rules in fuzzy knowledge base but also can perform dynamically fuzzy reasoning. **a spiking neural network for financial prediction** - fuzzy logic to analyze patterns of spike trains in a snn as the basis for financial forecasting in a novel way, most snns applied to this area of financial forecasting are adaptations of traditional neural networks; as such often the temporal financial information gets overwhelmed by other data or is simply just discarded. despite their potential, the application of spiking neural networks ... **modeling the spike response for adaptive fuzzy spiking ...** - spiking neural networks (snns) had been developed for imitating the behavior of biological neurons, the snns, are based on the training of the weights, but the snns also include a delay parameter, the signal delay from one neuron to another is different, giving **fault diagnosis of metro traction power systems using a ...** - spiking neural p system with trapezoidal fuzzy numbers (tfrsn p system) was proposed in [20] and the fault diagnosis of power transmission networks based on tfrsn p systems was investigated in [20], [21]. **adaptation of spiking neural networks for image clustering** - literature of spiking neural networks are presented. the second section is the central part of the paper and is devoted to the description of the snn segmentation method and its main features. simulation of neuron model and its training are reported in the third section. the fourth section describes the proposed method of segmentation. results and conclusion are discussed in the last section ... **pattern recognition with spiking neural networks: a simple ...** - pattern recognition with spiking neural networks: a simple training method françois christophe, tommi mikkonen, vafa andalibi, kai koskimies, and teemu laukkarinen tampere university of technology korkeakoulunkatu 1, fi-33720 tampere, finland firstname.lastname@tut abstract. as computers are getting more pervasive, software becomes transferable to different types of hardware and, at the ... **evolving spiking neural network controllers for autonomous ...** - hence networks of spiking neurons (which are very close to the real world biological neural network) are capable of exploiting time as a resource for **evolving spiking neural network - a survey** - evolving spiking neural network - a survey 3 spikes time t stimulus $u(t)$ fig. 1: dynamics of the post-synaptic potential (psp) of the thorpe neuronal model for a given input stimulus. **++ neural networks and fuzzy logic:preface - ubc ece** - • chapter 16 treats two application areas of fuzzy logic: fuzzy control systems and fuzzy databases. this chapter also expands on fuzzy relations and fuzzy set theory with several examples. • chapter 17 discusses some of the latest applications using neural networks and fuzzy logic.

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