A Signature Verification System Based on Spiking Neural Networks

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Signature verification is one of the methods for authentication of users in different applications. In dynamic (on_line) signature verification, besides spatial features extracted from the shape of signature, temporal information plays also a major role. Aritficial neural networks are among promising and powerful methods towards processing spatio-temporal information. In this paper, we present an algorithm for dynamic signature verification using spiking neural network based on time factors . MLP and LVQ netwoks are applyed In this research. Our model can be considerd as one of the simplest verification systems in terms of computational costs and implementation overhead. Key Word: dynamic signature verification, temporal features , Spiking Neural networks.