
Implementation of neural codes using a spiking neuron model

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Abstract

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1 Description of the problem

In real neurons spikes are used to code information. While different mechanisms of computation with spikes have been proposed [1] [2], their application to real world problems is rather limited.

2 Description of our approach

3 Implementation

4 Results

5 Conclusions

References

- [1] Hélène Paugam-Moisy and Sander M. Bohte. Computing with Spiking Neuron Networks. In G. Rozenberg, T. Back, and J. Kok, editors, *Handbook of Natural Computing*, pages 335–376. Springer-Verlag, September 2012.
- [2] Filip Ponulak and Andrzej Kasinski. Introduction to spiking neural networks: Information processing, learning and applications. *Acta neurobiologiae experimentalis*, 71(4):409—433, 2011.