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Talk 2:

Computations by noisy networks of spiking neurons II

I will discuss how noise in networks of spiking neurons has given rise to a jump in the computational power of these networks, also for computations that are not likely to be carried out in the brain. I will sketch why these new paradigms for spike-based computations with noise are of interest for the computer chip industry.

A review with many references is given in:

W. Maass. Noise as a resource for computation and learning in networks of spiking neurons. Proceedings of the IEEE, 102(5):860-880, 2014

<http://www.igi.tugraz.at/maass/psfiles/221.pdf>