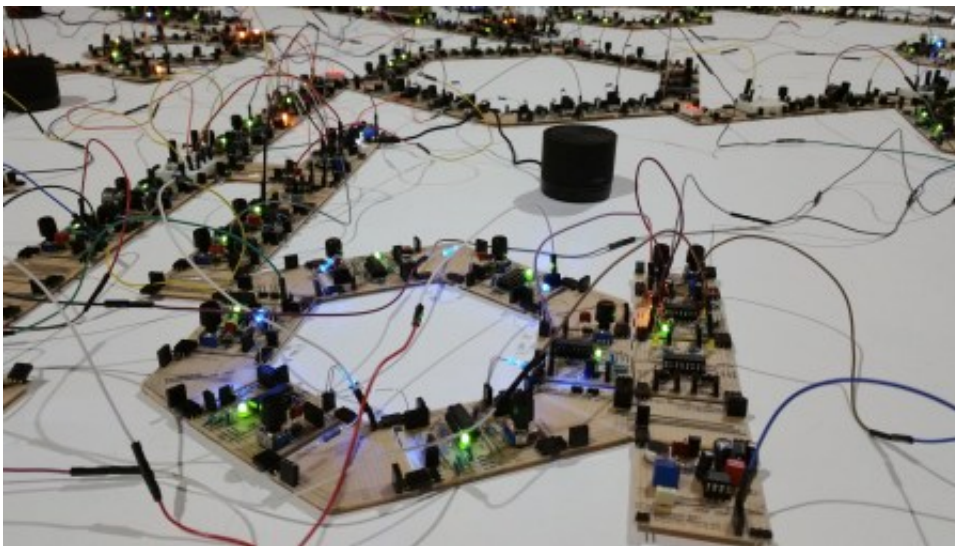
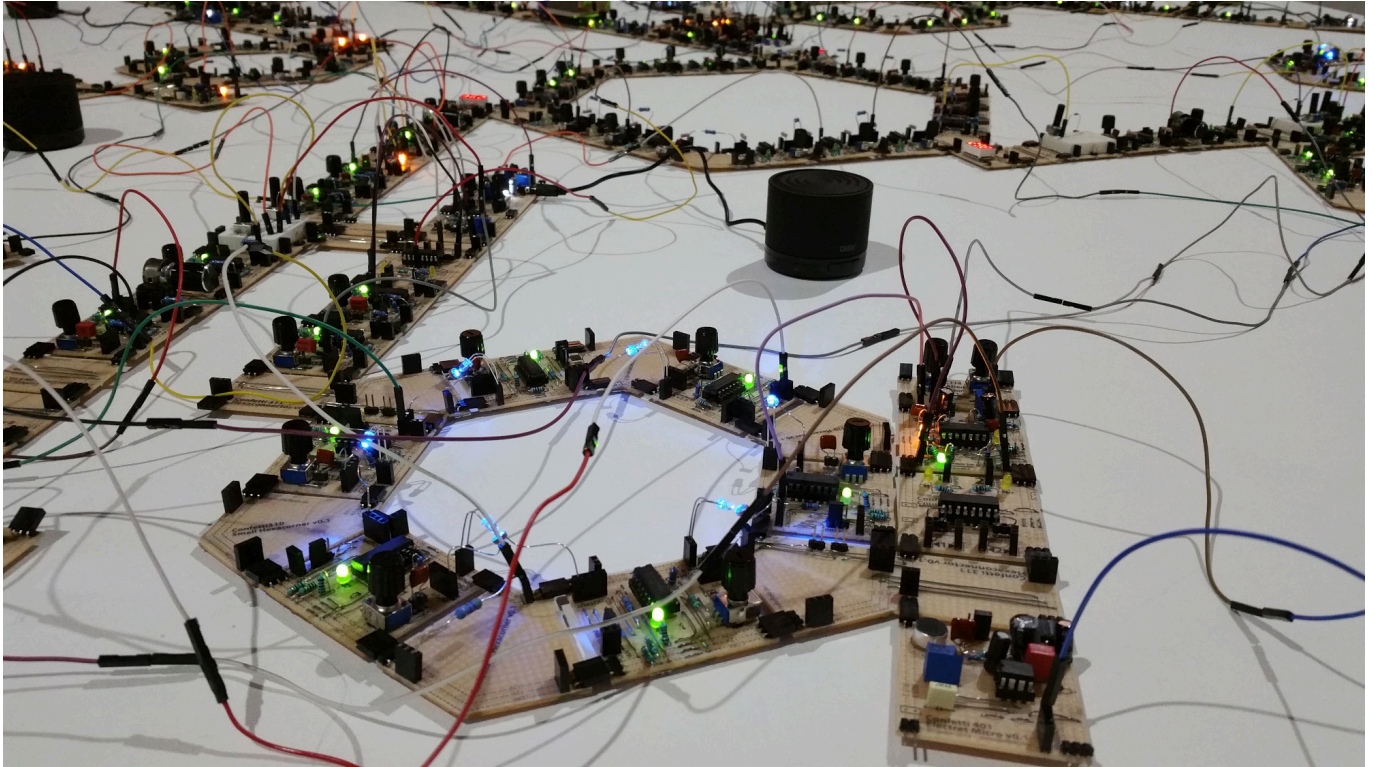


## Echo State Network - Wolfgang Spahn



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"Echo State Network" Media Installation Edition: 5+2AP

[Rating Not Rated Yet](#)  
[Rating Not Rated Yet this product](#)

Artist: [Wolfgang Spahn](#)

#### Description

As part of his [Analog Computer Confetti](#) the artist created an analogue electric circuit that mimic a model of a neuron. More than 150 of the [Confetti Neurons](#) will form an analogue version of a so called "Echo State Network". And because the model for that neuron was developed to explain our heart beat this network will oscillate, pulse and create most complex pattern one can see and listen to.

An Echo State Network is a particular kind of model of a recurrent neural network. At it's core is a complex, chaotic and back coupling neural network, similar to a Liquid-State Machine. At the networks input layer a couple of sensors will react to sound and light. Brightness and frequencies will be processed and fed back in the Echo State Network. A couple of firing neurons that oscillates in a audible frequency will form the output layer. Indicator LEDs shows the action in the network as well as 8 speakers make these activity hearable at 8 different nodes of the network. Thus the visitor can witness the activity in the neural network and can get an idea of the complexity of these processes.

More Information [here](#)

[Video of the Artwork](#)

Units in box: 1

#### Reviews

There are yet no reviews for this product.

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