

[Re] Robust timing and motor patterns by taming chaos in recurrent neural networks

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The authors have declared that no competing interests exist.

 [Article repository](#)

 [Code repository](#)

A reference implementation of

→ Laje, R. and Buonomano, D.V. (2013). Robust timing and motor patterns by taming chaos in recurrent neural networks. Nat Neurosci. 2013 Jul;16(7):925-33. doi:10.1038/nn.3405.

Introduction

Methods

Structure of the network

```
self.W_in = np.random.randn(self.N, self.Ni)
```

Learning rule

Training procedure

Results

Conclusion

The reproduction of the model proposed by **Laje2013** was successful. This was grea

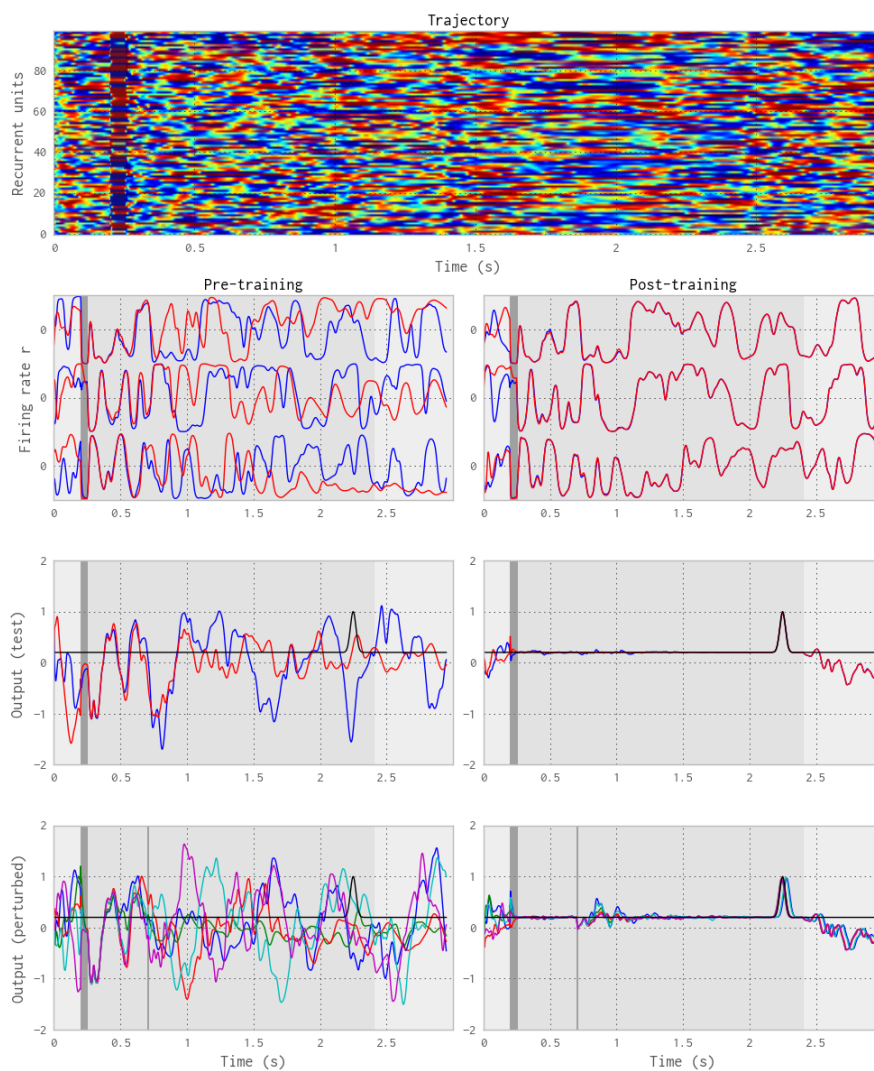


Figure 1: Complexity without chaos.

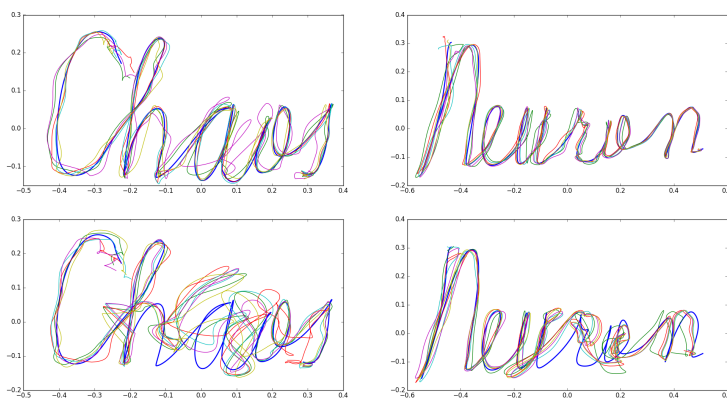


Figure 2: Generation and stability of complex spatiotemporal motor patterns.

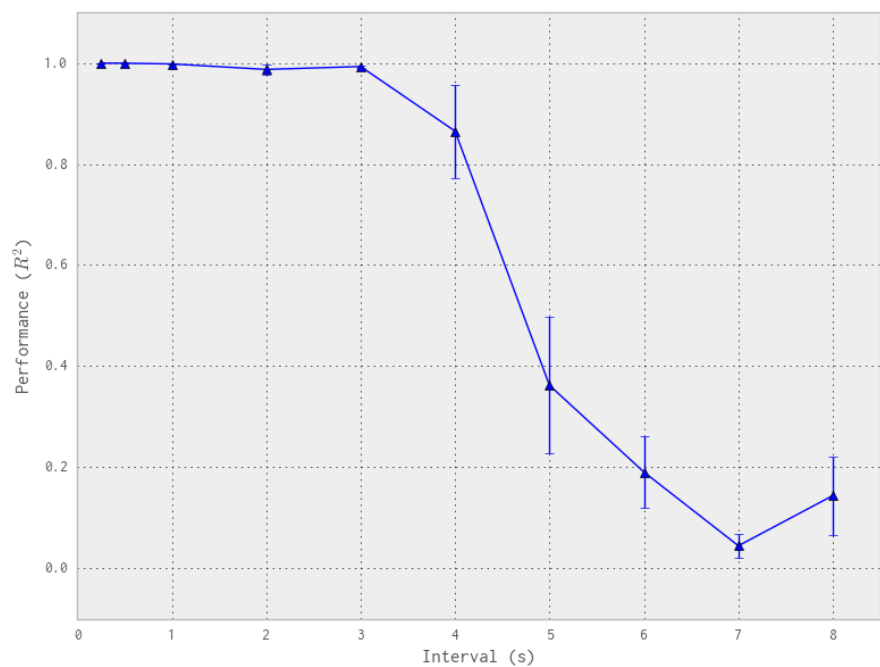


Figure 3: Improved “timing” capacity.