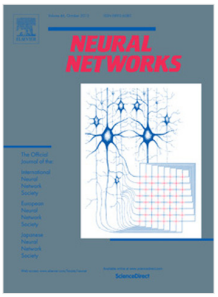
Accepted Manuscript



Design of deep echo state networks

Claudio Gallicchio, Alessio Micheli, Luca Pedrelli

PII: S0893-6080(18)30222-3
DOI: https://doi.org/10.1016/j.neunet.2018.08.002
Reference: NN 4006

To appear in: *Neural Networks*

Received date : 14 December 2017
Revised date : 27 July 2018
Accepted date : 2 August 2018

Please cite this article as: Gallicchio, C., Micheli, A., Pedrelli, L., Design of deep echo state networks. *Neural Networks* (2018), https://doi.org/10.1016/j.neunet.2018.08.002

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights (for review)

ACCEPTED MANUSCRIPT

We address the issue of architectural design for Deep Recurrent Neural Networks

We focus on the frequency analysis for layering design

We propose an efficient approach to choose the number of recurrent layers in DeepESN

We show the empirical advantage of very Deep (>30 recurrent layers) RNNs

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/8941794

Download Persian Version:

https://daneshyari.com/article/8941794

Daneshyari.com