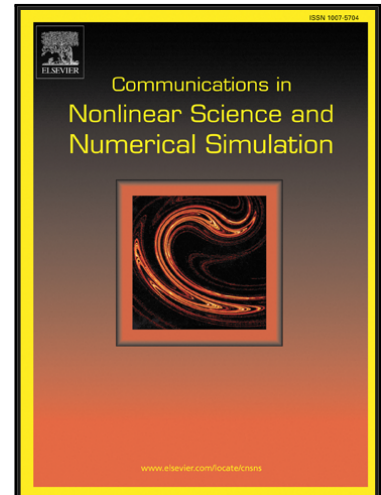


Accepted Manuscript

Recovering an unknown signal completely submerged in strong noise by a new stochastic resonance method

Dawen Huang , Jianhua Yang , Dengji Zhou , Miguel A.F. Sanjuán , Houguang Liu

PII: S1007-5704(18)30188-6
DOI: [10.1016/j.cnsns.2018.06.011](https://doi.org/10.1016/j.cnsns.2018.06.011)
Reference: CNSNS 4553



To appear in: *Communications in Nonlinear Science and Numerical Simulation*

Received date: 26 March 2018
Revised date: 14 May 2018
Accepted date: 10 June 2018

Please cite this article as: Dawen Huang , Jianhua Yang , Dengji Zhou , Miguel A.F. Sanjuán , Houguang Liu , Recovering an unknown signal completely submerged in strong noise by a new stochastic resonance method, *Communications in Nonlinear Science and Numerical Simulation* (2018), doi: [10.1016/j.cnsns.2018.06.011](https://doi.org/10.1016/j.cnsns.2018.06.011)

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

- An unknown signal completely submerged by a strong noise is precisely recovered.
- A new PMV indicator is designed to quantify the response of nonlinear systems.
- A parameter estimation strategy of the unknown signal is introduced and verified.
- The correctness of the proposed method is investigated by numerical simulation.

Download English Version:

<https://daneshyari.com/en/article/7154428>

Download Persian Version:

<https://daneshyari.com/article/7154428>

[Daneshyari.com](https://daneshyari.com)