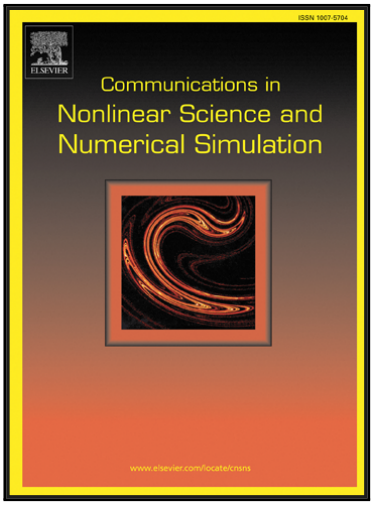
Accepted Manuscript



Adaptive General Pinned Synchronization of a Class of Disturbed Complex Networks

Xiao-Zheng Jin, Tao He, Jian-Wei Xia, Dan Wang, Wei Guan

PII: S1007-5704(18)30228-4
DOI: 10.1016/j.cnsns.2018.07.016
Reference: CNSNS 4589

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

Received date: 28 January 2018
Revised date: 9 May 2018
Accepted date: 9 July 2018

Please cite this article as: Xiao-Zheng Jin, Tao He, Jian-Wei Xia, Dan Wang, Wei Guan, Adaptive General Pinned Synchronization of a Class of Disturbed Complex Networks, *Communications in Nonlinear Science and Numerical Simulation* (2018), doi: 10.1016/j.cnsns.2018.07.016

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.

ACCEPTED MANUSCRIPT

Highlights

- This paper is concerned with the robust synchronization problem for a class of complex networks with persistently time-varying and state-dependent disturbances.
- A novel and generalized synchronization error function is proposed to unify the existing strong and weak synchronization error models.
- Adaptive pinning control and coupling adjustment strategies are constructed to ensure the bounded synchronization under the influence of persistent disturbances.
- An application of Lorenz system networks is given to verify the effectiveness of the proposed method.

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/11003770

Download Persian Version:

https://daneshyari.com/article/11003770

Daneshyari.com