

## Accepted Manuscript

Pinning adaptive hybrid synchronization of two general complex dynamical networks with mixed coupling

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PII: S0307-904X(15)00626-5  
DOI: [10.1016/j.apm.2015.09.092](https://doi.org/10.1016/j.apm.2015.09.092)  
Reference: APM 10791



To appear in: *Applied Mathematical Modelling*

Received date: 18 August 2014  
Revised date: 22 July 2015  
Accepted date: 30 September 2015

Please cite this article as: Baocheng Li , Pinning adaptive hybrid synchronization of two general complex dynamical networks with mixed coupling, *Applied Mathematical Modelling* (2015), doi: [10.1016/j.apm.2015.09.092](https://doi.org/10.1016/j.apm.2015.09.092)

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**Highlights**

- Hybrid synchronization of two general complex dynamical networks.
- A distributed delay system and mixed coupling are considered.
- Some less conservative sufficient conditions are obtained.
- Matrix decomposition method is used.
- Numerical experiments are given.

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