

Design of Easily Synchronizable Oscillator Networks Using the Monte Carlo Optimization Method

Tatsuo Yanagita, Alexander S. Mikhailov

(Submitted on 8 Apr 2010)

Starting with an initial random network of oscillators with a heterogeneous frequency distribution, its autonomous synchronization ability can be largely improved by appropriately rewiring the links between the elements. Ensembles of synchronization-optimized networks with different connectivities are generated and their statistical properties are studied.

Subjects: **Adaptation and Self-Organizing Systems (nlin.AO)**

Cite as: [arXiv:1004.1260v1](#) [nlin.AO]

Submission history

From: Tatsuo Yanagita [[view email](#)]

[v1] Thu, 8 Apr 2010 07:12:36 GMT (351kb)

[Which authors of this paper are endorsers?](#)

Link back to: [arXiv](#), [form interface](#), [contact](#).

Download:

- [PDF](#)
- [PostScript](#)
- [Other formats](#)

Current browse context:

nlin.AO

[< prev](#) | [next >](#)

[new](#) | [recent](#) | [1004](#)

Change to browse by:

[nlin](#)

References & Citations

- [NASA ADS](#)

Bookmark([what is this?](#))

