

# Synchronization of a Generalized High-dimensional Kuramoto Model With Directed Graphs

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## Research Article

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# Abstract

In this paper, a generalized high-dimensional Kuramoto model with directed graphs is investigated. A necessary and sufficient condition for equilibria is given and the synchronization is proved under weaker directed graph conditions and more general initial state constrains. Finally, an example is given to validate the theoretical results.

# Full-text

Due to technical limitations, full-text HTML conversion of this manuscript could not be completed. However, the manuscript can be downloaded and accessed as a PDF.

# Figures

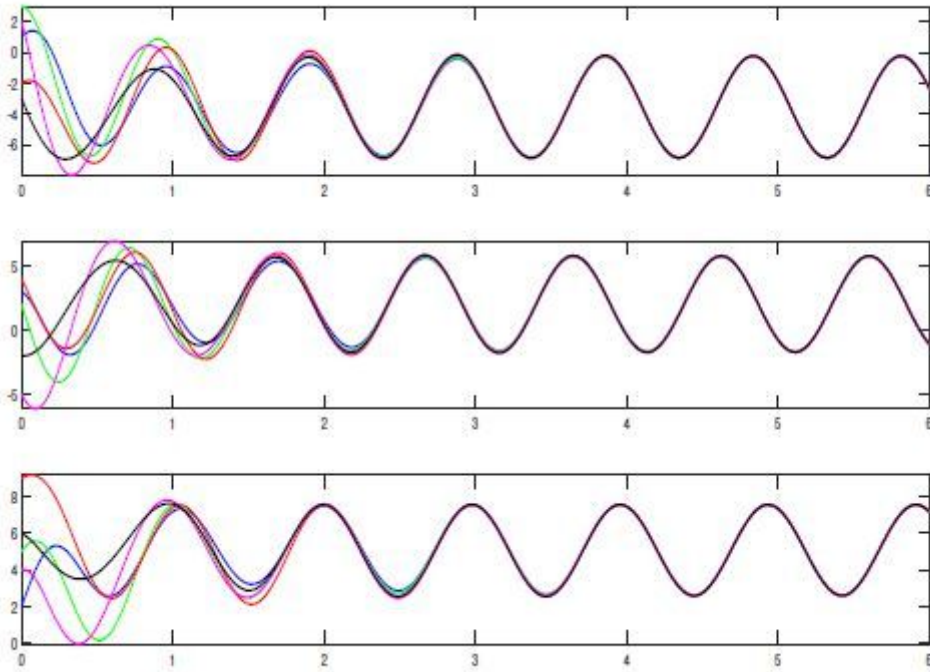
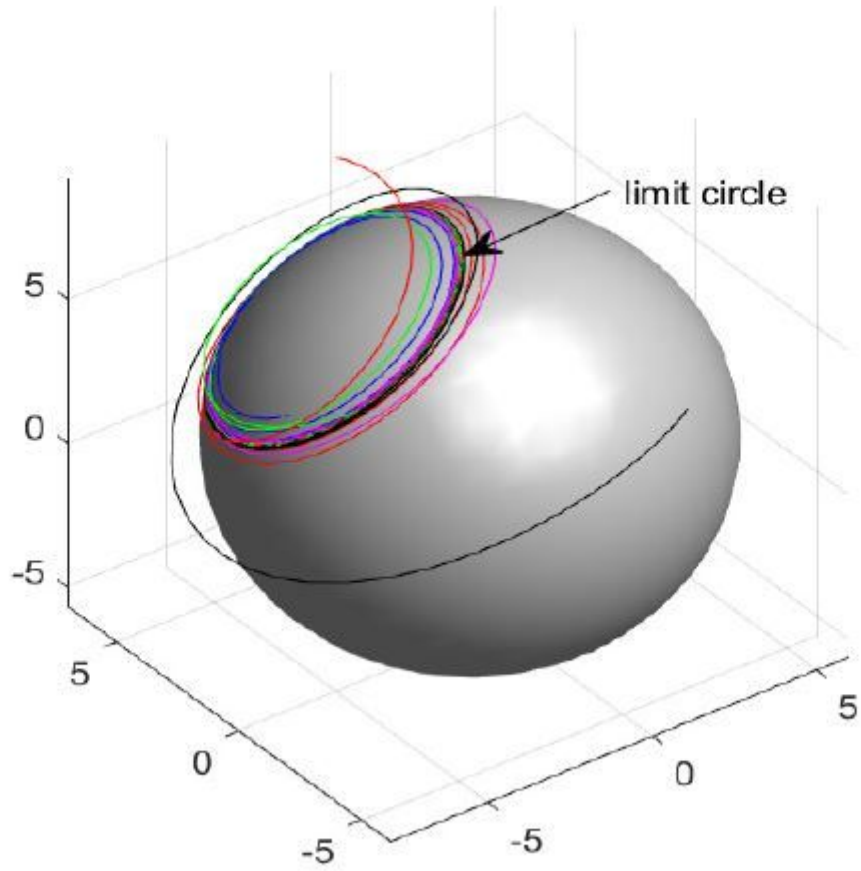


Figure 1

Time response curves of the system 50.



**Figure 2**

Dynamical synchronization of the system 50.