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Synchronization stability of Riemann–Liouville fractional delay-coupled complex neural networks

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Highlights (PHYSA 18260)

HIGHLIGHTS

- The constructed Lyapunov functional can avoid computing the fractional-order derivative to derive the synchronization stability conditions.
- The neuron activation functions in this paper are not necessarily required to be differential.
- The proposed results reveal the relationships between the stability of fractional-order isolated neural networks and the synchronization of delay-coupled complex neural networks.
- The proposed results bridge the stability theory of fractional-order neural network and synchronization theory of fractional-order coupled complex networks.

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