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Dissipative-based sampled-data synchronization control for complex dynamical networks with time-varying delay

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Highlights

- A discontinuous Lyapunov-Krasovskii functional is employed to make full use of the sawtooth structure characteristic of sampling instant, the obtained results can be less conservatism than some existing works.
- The dissipative property is addressed to cope with the robust control issue. In this case, the H in nity and passive control issue can also be obtained in a unifed frame by turning some fixed parameters.
- A sampled-data synchronization controller is designed which can ensure the resulting synchronization error system is stable and satisfies a strictly $(Q, R, S) \theta$ dissipative property.

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