

Reliable Consensus Problem for Multi-Agent Systems with Sampled-Data

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Abstract : In this paper, reliable consensus of multi-agent systems with sampled-data is investigated. By using a suitable Lyapunov-Krasovskii functional and some techniques such as Wirtinger Inequality, Schur Complement and Kronecker Product, the results of this systems are obtained by solving a set of Linear Matrix Inequalities(LMIs). One numerical example is included to show the effectiveness of the proposed criteria.

Keywords : multi-agent, linear matrix inequalities (LMIs), kronecker product, sampled-data, Lyapunov method

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