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Distributed event-triggered observer-based tracking control of leader-follower multi-agent systems

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Highlights

- Leader-following consensus of multi-agent systems with high dimension leader is considered.
- To achieve consensus as well as save communication resource, an event-based controller is proposed. The proposed event-based controller can effectively avoid Zeno behavior.
- In order to adapt to digital communication networks, an event-triggered mechanism which is based on quantized measurement is proposed.
- An adaptive distributed observer-based controller is utilized in order to remove the assumption that all followers know the system matrix of the leader.

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