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Asynchronous consensus of second-order multi-agent systems with impulsive control and measurement time-delays

Fangcui Jiang, Bo Liu, Yongjun Wu, Yunru Zhu

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Highlights

- The current work extends the existing results on impulsive consensus to the asynchronous setting.
- The paper considers the case of multiple measurement time-delays as well.
- In the technical contribution, the analysis method is entirely different from the analysis techniques used in some related existing works due to the effects of both asynchronism of sampled information and impulsive nature of protocol.
- The design of the protocol parameters is given by solving a feasible linear matrix inequality.

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