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Abstract



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III. Distributed Model Reference Adaptive Control Based On Neighborhood Controller-Local Observer

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Abstract:

is achieved.

This paper studies a distributed model reference adaptive control which designed based on neighborhood controllerlocal observer. The controller will be applied in each follower which has limited-output information and uncertainty. The proposed control composes of four main parts, namely local observer, reference model, adaptive controller and neighborhood controller. Local observer is used to obtain full-state estimation of each follower by utilizing the internal output estimation error. While, the rest of the control parts responsible for simultaneously eliminate the effects of the uncertainty and tracking the leader state. The proposed control will be simulated by using betaracapacus vahiala platoon under two-predecessorfollowing-leader topology. and the tracking error to the reference model are approac

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Vehicle will have capability to share informat One type of the cooperative driving is called train-like cooperative driving by keeping the sign in platoon is formed, all vehicles will move with vehicle platoon become active research due	f the potential features in the future smart vehicles. tion to the other road users including other vehicles. as vehicle platoon, where a number of vehicles form a distance between consecutive vehicles. Once the n to Continue Reading a synchronous velocity and acceleration. Nowadays, to potential application in the future commercial and al benefits have been identified such as maximizing road on [1].						
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