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In recent decades, the ETC strategy is a control strategy for data transmission according to the triggering conditions, that can only be transmitted when the conditions of event-triggered are met, so this control strategy has been extensively explored and researched by scholars. This method was first put forward in the literature [19] for the study of system stability. The research method is to transmit the data to the actuator to complete the control task when the error signal violates the given triggering condition. It is found that the ETC strategy can efficiently reduce the number of samples, save communication resources and reduce communication burden. Therefore, researchers have increasingly focused on the synchronization of CDN via the ETC strategy, and have obtained a number of interesting findings [20,21,22,23,24,25,26,27,28]. However, in much literature, the study of ETC is static, that is, triggering conditions are set in advance [29, 30]. In addition, in the existing literature, the authors combined ETC with adaptive control to consider system consistency, such as [31]. In fact, in recent decades, adaptive control strategy has received more and more attention as a control strategy that adapts to the evolution results of the controlled network [32, 33]. As is known to all, in the actual network, the internal system of the CDN is inevitably interfered by the external environment and therefore has a certain uncertainty [34, 35]. Besides, time delay is inevitable [36, 37]. In addition, because the ETC has reduced the number of sampling, so it makes the controller more flexible under adaptive control.

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