

Correction

Correction: Xie et al. Distributed Attitude Synchronization for Spacecraft Formation Flying via Event-Triggered Control. *Appl. Sci.* 2021, 11, 6299

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Text Correction

We, the authors, wish to make the following corrections to our paper [1]. We have found that Equations (29) and (32) and ψ were stated incorrectly in the manuscript. We forgot to add parentheses when deriving the derivative of $\tilde{\chi}_i$, which led to these errors in the paper.

Equations (29) and (32) should be revised as follows:

$$\begin{aligned} \frac{d\|\tilde{\chi}_i\|}{dt} &\leq \left\| \dot{\omega}_{ei} + r \left[\sum_{j=1}^n a_{ij} (\dot{\sigma}_i - \dot{\sigma}_j) + \dot{\sigma}_{ei} \right] \right\| \\ &\leq \|\dot{\omega}_i\| + \|\dot{\omega}_d\| + nr\|\dot{\sigma}_i\| + nr\|\dot{\sigma}_j\| + r\|\dot{\sigma}_i\| + r\|\dot{\sigma}_d\| \\ &\leq 2(n+1)r\delta_1 + 2\delta_2 \end{aligned} \quad (29)$$

$$\begin{aligned} \frac{d\|\tilde{\chi}_i\|}{dt} + \frac{d\|\tilde{e}_i\|}{dt} + \frac{d\|\tilde{\eta}_i\|}{dt} &\leq 2(n+1)r\delta_1 + 2\delta_2 + 2(n+1)\delta_2 + 2\|J_i\|\delta_1\delta_2 + \|J_i\|\delta_3 \\ &\leq 2(n+1)r\delta_1 + 2(n+2)\delta_2 + (2\delta_1\delta_2 + \delta_3)J_{\max} \end{aligned} \quad (32)$$

and the variable ψ after Equation (32) should be corrected to the following:

$$\psi = 2(n+1)r\delta_1 + 2(n+2)\delta_2 + (2\delta_1\delta_2 + \delta_3)J_{\max}$$

We also state that this change has no impact on the experimental results. The authors apologize for any inconvenience caused and state that the scientific conclusions are unaffected. The original article has been updated.

Reference

1. Xie, X.; Sheng, T.; He, L. Distributed Attitude Synchronization for Spacecraft Formation Flying via Event-Triggered Control. *Appl. Sci.* **2021**, *11*, 6299. [[CrossRef](#)]



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