

Correction

Correction: Renaudin, V. *et al.* Use of Earth's Magnetic Field for Mitigating Gyroscope Errors Regardless of Magnetic Perturbation. *Sensors* 2011, 11, 11390–11414**Muhammad Haris Afzal, Valérie Renaudin * and Gérard Lachapelle**

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Although the equations' derivation in our paper published in *Sensors* 2011 [1] is correct, a typo has been found in the summarizing Equations (48) and (49). The dot on the B in the skew matrix should be removed. Equations (48) and (49) should be corrected as:

$$\delta \dot{\mathbf{B}}_{QSF_{k+1}}^b = \begin{bmatrix} \mathbf{0}_{3 \times 3} & -[\mathbf{B}_{QSF_{k+1}}^b \times] \end{bmatrix} \begin{bmatrix} \boldsymbol{\varepsilon}^n \\ \delta \mathbf{b}_\omega \end{bmatrix} + \begin{bmatrix} \mathbf{0}_{1 \times 3} & \mathbf{0}_{1 \times 3} \\ \mathbf{0}_{1 \times 3} & [\hat{\boldsymbol{\omega}}_B^b \times] \end{bmatrix} \begin{bmatrix} \mathbf{0}_{3 \times 1} \\ \boldsymbol{\eta}_B \end{bmatrix} \quad (48)$$

$$\underbrace{\begin{bmatrix} \delta \mathbf{B}_{QSF_{k+1}}^n \\ \delta \dot{\mathbf{B}}_{QSF_{k+1}}^b \end{bmatrix}}_{\delta \mathbf{z}} = \underbrace{\begin{bmatrix} -[\mathbf{B}_{QSF_k}^n \times] & \mathbf{0}_{3 \times 3} \\ \mathbf{0}_{3 \times 3} & -[\mathbf{B}_{QSF_{k+1}}^b \times] \end{bmatrix}}_{\mathbf{H}_{QSF}} \underbrace{\begin{bmatrix} \boldsymbol{\varepsilon}^n \\ \delta \mathbf{b}_\omega \end{bmatrix}}_{\delta \mathbf{x}} + \begin{bmatrix} -\mathbf{C}_b^n \\ [\hat{\boldsymbol{\omega}}_B^b \times] \end{bmatrix} \boldsymbol{\eta}_B \quad (49)$$

Reference

1. Afzal, M.H.; Renaudin, V.; Lachapelle, G. Use of Earth's Magnetic Field for Mitigating Gyroscope Errors Regardless of Magnetic Perturbation. *Sensors* **2011**, *11*, 11390–11414.