



Correction: Displacement detection with sub-pixel accuracy and high spatial resolution using deep learning

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49:3–15
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In this article the presentation of the Lucas–Kanade method in the section of Material and Method was incorrectly given as

$$\begin{bmatrix} u_x \\ u_z \end{bmatrix} = \begin{bmatrix} \sum_{x,z} l_x^2 & \sum_{x,z} l_x l_z \\ \sum_{x,z} l_x l_z & \sum_{x,z} l_z^2 \end{bmatrix}^{-1} \left((I - J) \begin{bmatrix} \sum_{x,z} l_x \\ \sum_{x,z} l_z \end{bmatrix} \right),$$

but should have been

$$\begin{bmatrix} u_x \\ u_z \end{bmatrix} = \begin{bmatrix} \sum l_x^2 & \sum l_x l_z \\ \sum l_x l_z & \sum l_z^2 \end{bmatrix}^{-1} \sum \left[(I - J) \begin{bmatrix} l_x \\ l_z \end{bmatrix} \right]$$

In Table 1 of this article, the data in row 4 were incorrectly published.

The original article can be found online at <https://doi.org/10.1007/s10396-021-01162-7>.

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Incorrect version

Table 1 The optimization of network parameters

	1	2	3	4	5	6	7	8
Input data								
Log-compressed images	✓	✓			✓	✓	✓	✓
Real parts of IQ data	✓		✓		✓	✓	✓	✓
Imaginary parts of IQ data	✓		✓		✓	✓	✓	✓
Number of layers	16	16	16	16	16	23	16	16
Kernel size of CNN layers	5,3	5,3	5,3	5,3	5,3	5,3	3,3	7,3
Accuracy [μm]	1.28	1.092	1.37	1.37	1.088	1.10	1.21	1.089

Corrected version (Table 1)

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