CORRECTION



## Correction to: A novel cost-effective sparsity-aware algorithm with Kalman-based gain for the identification of long acoustic impulse responses

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## Correction to: Signal, Image and Video Processing https://doi.org/10.1007/s11760-020-01715-2

Unfortunately, the above article has been published with some typos in it.

The corrected sentences are given below:

1. In n the subsection 4.1 Derivation of the proposed algorithm (IPNLMS), under part (b) Step 2: Simplification, the second line in fourth paragraph should read as:

This replacement is to set a fixed overall adaptation step-size independent on the infuence of the input signal power  $\sigma_x^2$ , and to have an update equation form comparable to IPNLMS

2. In equation (27), the zero symbol '**0**' in  $\mathbf{0}_{N_q \times 1}$ should be written in bold because it refers to the vector of the first  $N_q$  zero elements in **m**. In addition, the elements of the vector should be spaced and separated, as shown below:

 $\mathbf{m}_{N\times 1} = \left[\mathbf{0}_{N_q\times 1}, 1, e^{-1/\phi}, e^{-2/\phi}, \dots, e^{-(N_m - 1)/\phi}\right]^T$ (27)

3. In equation (28) the zero symbols '**0**' should be written in bold because they refer to the zero portions in the matrix **w**. That is:

$$\mathbf{w} = \begin{bmatrix} \mathbf{0}_{N_q \times N_q} & \mathbf{0}_{N_q \times N_m} \\ \mathbf{0}_{N_m \times N_q} & \mathbf{P}_{N_m \times N_m} \end{bmatrix} \mathbf{m} + \mathbf{q}$$
(28)

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