

# Erratum: D<sup>2</sup>BF—Data-Driven Beamforming in MU-MIMO with Channel Estimation Uncertainty [1]

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On page 2, right column, third paragraph, after the sentence “*So the number of CSI ... 3GPP standards [23].*”, the following sentence should be added:

*“These  $N$  CSI data samples collected in recent TTIs are noisy due to hardware impairments, environmental noise, thermal noise, and other factors. All these factors are intrinsic to wireless networks.”*

On page 3, right column, first paragraph:

*“So the  $N$  data samples of  $\mathbf{h}_i^g$  are drawn from the unknown distribution  $\mathbb{P}_{\mathbf{h}_i^g}$ .”*

should be reworded as:

*“So the  $N$  noisy data samples of  $\mathbf{h}_i^g$  are drawn from the unknown distribution  $\mathbb{P}_{\mathbf{h}_i^g}$  with inevitable estimation errors.”*

In the formulation of P1 (page 3, right column), P2 (page 3, right column) and P3 (page 4, left column):

*“Unknown distribution  $\mathbf{h}_i^g \sim \mathbb{P}_{\mathbf{h}_i^g}$ ,  $N$   $\mathbf{h}_i^g$  samples,”*

should be reworded as

*“Unknown distribution  $\mathbf{h}_i^g \sim \mathbb{P}_{\mathbf{h}_i^g}$ ,  $N$  noisy  $\mathbf{h}_i^g$  samples,”*

## References

- [1] S. Li, N. Jiang, Y. Chen, Y. T. Hou, W. Lou, and W. Xie, “D<sup>2</sup>BF—Data-Driven Beamforming in MU-MIMO with Channel Estimation Uncertainty,” in *Proc. IEEE INFOCOM*, pp. 120–129, Virtual Conference, May 2–5, 2022.