

Corrections to “On the Capacity of OFDM-Based Spatial Multiplexing Systems”

Helmut Bölcskei, David Gesbert, and Arogyaswami J. Paulraj

In the above paper¹, two mistakes have been made in the typesetting process:

- 1) The correct RHS of the next equation after Eq. (15) in ¹ giving the ergodic capacity in the large M_T limit and low SNR regime is $\log(1 + \bar{\rho} \text{Tr}(\mathbf{R}))$.
- 2) footnote 7 in ¹ should start with *In this context, we would like to point out an error in [27] and simplifications of some of the results reported in [27], in which [27, eq. (9)] should read*

$$\mathcal{E}\{C\} = \mathcal{E} \left\{ \frac{1}{N} \sum_{k=0}^{N-1} \log \left[\det \left(\mathbf{I}_{M_B} + \rho \mathbf{D}_k \mathbf{H} \mathbf{H}^H \mathbf{D}_k^H \right) \right] \right\}$$

and [27, eq. (11)] should be replaced by $\mathcal{E}\{C\} = \mathcal{E} \left\{ \frac{1}{N} \sum_{k=0}^{N-1} \log \left[\det \left(\mathbf{I}_{M_B} + \rho \mathbf{\Lambda}_k \mathbf{H}_w \mathbf{H}_w^H \mathbf{\Lambda}_k^H \right) \right] \right\}$.

¹H. Bölcskei, D. Gesbert, and A. J. Paulraj, IEEE Trans. Commun., vol. 50, no. 2, pp. 225-234, Feb. 2002.