

# Correction to “The Unbounded Benefit of Encoder Cooperation for the $k$ -user MAC”

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This document corrects an error in [1]. On page 3/5, in the statement of Theorem 3, the condition

$$\max_{p(x_{[k]})} I(X_{[k]}; Y) > \max_{p(x_1) \dots p(x_k)} I(X_{[k]}; Y), \quad (1)$$

is not sufficient to prove that  $(D_{\vee}G)(\mathbf{0}) = \infty$ . In addition to (1), a condition on the support of the maximizing distributions is required. Details are provided in [2].

## REFERENCES

- [1] P. Noorzad, M. Effros, and M. Langberg, “The unbounded benefit of encoder cooperation for the  $k$ -user MAC,” in *Proc. IEEE Int. Symp. Information Theory*, 2016. [Online]. Available: <http://ieeexplore.ieee.org/document/7541317/>
- [2] P. Noorzad, M. Effros, and M. Langberg, “The Unbounded Benefit of Encoder Cooperation for the  $k$ -user MAC,” *ArXiv e-prints*, Sep. 2016. [Online]. Available: <https://arxiv.org/abs/1601.06113>