

# Corrections and Clarifications

## Corrections and Clarifications to “ On the Distribution of the Weighted Sum of L Independent Rician and Nakagami Envelopes in the Presence of AWGN”

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In the above paper [1], the following corrections and clarifications are necessary:

1. The  $w_k$  in (12) and (21) is the real part of the Gaussian noise complex representation. In the model described by (12) and (21), real Gaussian RVs are assumed.
2. In Eq. (16), in the second and third terms,  $F_{11}(\cdot)$ ,  $F_{1L-l}(\cdot)$  and must be replaced with  $FN_{11}(\cdot)$  and  $FN_{1L-l}(\cdot)$ , correspondingly.
3. In Eq. (15),  $\Phi_{NORM}(0, \frac{\eta L}{2})(s)$  is defined as (related to

$$(13)) \Phi_{NORM}(0, \frac{\eta L}{2})(s) = \exp \left[ -\frac{\sum_{k=1}^L N_k}{4} s^2 \right].$$

4. In Eq. (15),  $\Phi_{X_k}(s)$  must be replaced with  $\Phi_{x_k}(s)$ .
5. In Eq. (25),  $t_k$  must be replaced with  $z_k$ .
6. Eq. (24) must be written as:  
 $P_e(L) = \Pr[\gamma(L) < 0 | \text{transmitted symbol} = 1].$

### ACKNOWLEDGEMENT

The authors wish to thank Dr. Marvin Simon, Jet Propulsion Laboratories, Pasadena, for providing the above useful suggestions and corrections that contributed to the improvement of the quality of the paper.

### REFERENCE

- [1] G. K. Karagiannidis and S. A. Kotsopoulos, “On the distribution of the weighted sum of L independent Rician and Nakagami envelopes in the presence of AWGN,” *J. Commun. Networks*, vol. 3, no. 2, pp. 112–119, June 2001.

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