

Technical Clarification to: “A New Approach to Random Access: Reliable Communication and Reliable Collision Detection”

Jie Luo, *Senior Member, IEEE*, Anthony Ephremides, *Fellow, IEEE*

For all the Theorems in the paper that present various achievable rate regions, their proofs do not support the inclusion of the point with rate zero in the achievable regions, unless the corresponding mutual information inequality is satisfied. Note that such a situation may not arise if a different “achievability” definition is adopted. For example, if the receiver only cares about the reliability of message decoding, the point with rate zero is trivially achievable since the transmitter is not interested in sending any message at all.