Simplified Separation of Information and Communication

Abstract:

Motivated by attempts to prove stronger lower bounds in communication complexity, a lot of recent work has tried to answer whether the information complexity of functions can be used to bound their communication complexity. Recently Ganor, Kol and Raz gave an example of a boolean function whose information complexity is exponentially smaller than its communication complexity. We simplify their work. I will give a black board talk highlighting the key ideas in the proof. Joint work with Makrand Sinha.