

Codes for communication between imperfect nodes

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ABSTRACT

Coding theory usually considers the communication of an information block between a sender and a receiver over a noisy channel. Implicit in this model is the assumption that the sender and receiver themselves are "perfect" entities, in the sense that the sender has all the information required by the receiver, and is always available to deliver it.

In reality, recovering a unit of information may require communicating with multiple senders, some of which will be less available for communication than others. For these scenarios new codes must be developed. In the lecture we will see examples for such codes.