

EEI-KOLLOQUIUM

Variations on Quantize-Forward Relaying

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Quantize-map-forward (QF) or Noisy Network Coding (NNC) is a compression-based relaying strategy that has several nice information-theoretic properties. For example, the method properly extends network coding from classic networks without interference to wireless relay networks, and it achieves rates within a reasonable gap of a cut upper bound. This talk reviews the strategy and presents recent results concerning random coding and decoding.