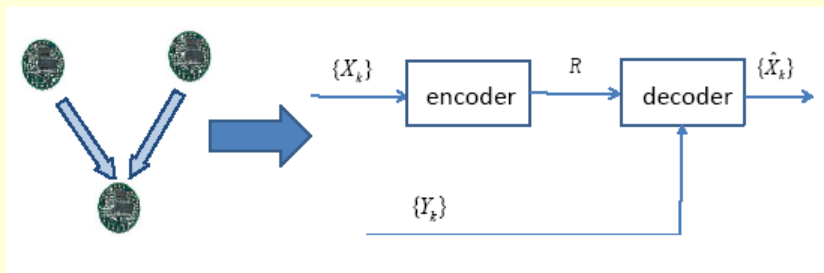


High Resolution Wyner-Ziv Coding of Gaussian Sources Using Prediction and Transforms

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The Model in Real Life



Problem Statement and Motivation

- Why considering about Scalar Coding?
- What's the property of quantizer ?
- How would filter parameters function in Predictive Distributed Coding?
- How would Transform Distributed Coding effect?
- Would high resolution assumption constrain the usefulness of our analysis?

Main Result

- The optimal quantizer is periodic.
- Behavior of optimal predictive filters are very different in distributed and non-distributed coding .
- The performances for each scheme within both fixed-length and variable-length coding could be seen.

Conclusions and Future Work

- We should look for new optimal filter parameters while using distributed coding
- In moderate part, simulated results still catches the theoretical ones
- Transform Coding achieves better performance
- Non-Gaussian Sources
- Joint Source-Channel Coding
- Trying Vector Quantizer s of Low Size