A Limited Feedback Scheme for Linear Dispersion Codes over Correlated MIMO Channels

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Wireless Communication Research in CSL
Space-time Codes with Limited Feedback

Partial CSI at Tx improves performance significantly!
Contributions

- Publications

- Summer intern in TI
  - Patent TI-63186 - Codebook Design and Pre-Coder Selection for Closed-Loop MIMO (with Eko Onggosanusi and Anand Dabak)
  - Proposed FER-SC that has the best performance
    - 0.5~5 dB better
  - Proposed Householder-based codebook that has low complexity
    - 40~50 % reduction
  - Currently being proposed by TI DSPS R&D team for 3GPP LTE standard adoption