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Selection from Near-Capacity Variable-



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This chapter proposes iteratively decoded schemes, in which it opts for serially concatenating Irregular Variable Length Codes (IrVLC) with Trellis Coded Modulation (TCM) [277]. It introduces

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our benchmark schemes, where IrVLC is replaced by regular Variable-Length Codes (VLCs) having the same coding rate.

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[3] Near-Capacity Variable-Length Coding: Regular and Exit-Chart Aided Irregular Designs. [More Publications] Irregular coding has been proposed for the reliable transmission of information at channel SNRs that are close to the channel's capacity bound without imposing an excessive decoding complexity and latency.

~~Coding and Modulation | Next Generation Wireless Research ...~~

Hanzo, Lajos, Maunder, Robert G., Wang, Jin and Yang, Lie-Liang (2010) Near-Capacity Variable-Length Coding, Wiley.

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Li, Liang, Maunder, Robert G., Al-Hashimi, Bashir M. and Hanzo, Lajos (2010) Design of Fixed-Point Processing Based Turbo Codes Using Extrinsic Information Transfer Charts.

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