Chair of Communications Engineering
TUM Department of Electrical and Computer Engineering
Technical University of Munich

TUM

Forschungspraxis, Master's Thesis

Successive Cancellation Inactivation Decoding over q-ary Erasure Channels

The student is expected to understand a recent decoding algorithm called successive cancellation inactivation (SCI) decoding [1] and extend it towards q-ary erasure channels.

[1] https://ieeexplore.ieee.org/abstract/document/9174226

Prerequisites

The student is expected to have a good understanding of linear algebra and be able to implement via Matlab or Julia. The following courses are beneficial:

- Information Theory

- Channel Coding

- Channel Codes for Iterative Decoding

Contact

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Advisors

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