

Forschungspraxis

Message Passing Decoding of BMERA Codes

In this research internship, the student will implement a belief propagation (BP) decoder for message passing decoding of BMERA codes, also known as convolutional polar codes. For this, the student will first start with a conventional BP decoder for polar codes and then take the necessary steps to adapt the algorithm for BMERA codes. Eventually, a numerical performance evaluation by means of frame error rate simulations should be made.

Prerequisites

Channel Coding, Channel Codes for Iterative Decoding, Information Theory

Advisors

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