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

Bachelor's Thesis

Implemantation of an Error Correcting Code with Limited Magnitude for Finite Blocklength

Error-correcting (block) codes are important in many practical applications.
For these applications, asymmetric channels are common cases both in fi□ber
and free space. Furthermore, in memories like LSI/VLSI, ROM, and RAM,
asymmetric errors happen. These are the faults that a□ffect address decoders, word lines, power supplies, and stuck-faults in a serial bus.

Deppe and Lebedev developed new codes for these channels. The goal of the thesis is to analyse and simulate those codes.

Advisors

Christian Deppe