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

Bachelor's Thesis

Deterministic K-Identification For The Slow Fading Channel With Power Constraint

The student try to study the standard identification capacity of slow fading channel

and then develop those techniques for the a more general scope of K object (kK-identification) and attemps to derive lower/upper bounds for the K-identification capacity in the deterministic regime.

Further the student implemet a simple program in Matlab to verify and anaylse the

error of type I and II for a certain range of finite block-length values. The simulation is a sanity check to verify the encoding/decoding methodology.

Prerequisites

Familiarity with fundamentals of **identification theory** and **coding**.

Advisors

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