

Seminar

Massive Random Access

With with the increasing number of devices connected to the internet and the growing number of M2M type communications, massive random access has become a crucial topic in the design of communication systems. The student's task is to understand the concepts of massive random access. The Two main resources are [1] and [2].

[1] Y. Polyanskiy, "A perspective on massive random-access," in Proc. IEEE Int. Symp. Inf. Theory (ISIT), Aachen, Germany, Jun. 2017, pp. 2523–2527.

[2] K.H. Ngo, A. Lancho, G. Durisi, A. Graell i Amat, "Massive Uncoordinated Access With Random User Activity," [arXiv:2103.09721](https://arxiv.org/abs/2103.09721), Mar 2021.

Prerequisites

Information Theory

Multi User Information Theory

Channel Coding

Advisors

Delcho Donev