

Departamento de Matemáticas

Concatenation of Rank Metric Codes with Convolutional Codes for Video Streaming

Abstract: In this talk we present a novel coding approach to deal with the transmission of information over a network. In particular we will show how make use of the network several times (multi-shot) in order to impose correlation in the information symbols over time. We shall propose to encode the information via an inner and an outer code, namely, a Hamming metric convolutional code as an outer code and a rank metric code as an inner code. We shall show how this simple concatenation scheme can exploit the potential of both codes to produce a code that can correct a large number of error patterns.

A brief introduction to the concepts of network coding and convolutional codes will be presented.

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Fecha: Viernes día 22 de Julio de 2016, a las 11:30
Lugar: Seminario de Ecología.