

Source Coding



Component

École Nationale
Supérieure
d'Électrotechnique
d'Électronique
d'Informatique
d'Hydraulique
et des
Télécommunications

In brief

- > **plugin.odf-inp:PLUGINS_ODF_COURSE_NBHOURS_TXT:** 3 CM de 1
- > **Code:** N7EN03C

Presentation

Objectives

Understand what is source coding: lossless or lossy coding methods: lossless linked to information theory and lossy methods based on signal processing, with the 2 big families, predictive coding and transform coding.

Description

- I. Introduction
- II. Lossless coding : basis (information theory in short), Huffman coding, based-dictionary methods, arithmetic coding
- III. Lossy coding: the importance of scalar quantization
- IV. Lossy coding: predictive coding
- V. Lossy coding: transform coding

Pre-requisites

Probabilities. Matrix computation

Useful info

Place

› Toulouse