

IS100 : Analyse des données et Théorie de l'information

Shared by UV(s) :

I5-A Algorithms & mathematics 1 page 0

To choose from :

IS102 information theorie page 0
IS103 Information Theory page 0

ECTS credits :

1.50

Number of hours :

Lecture : 16.00

Teacher(s) :

GUENNEGUEZ Liliane

Title :

Analyse des données et Théorie de l'information

IS102 : information theorie

Shared by choice module(s) :

IS100 Analyse des données et Théorie de l'information

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ECTS credits :

1.50

Evaluation :

S1: ET(2h) x1

Number of hours :

Lecture : 16.00

Individual work : 8.00

Teacher(s) :

GUENNEGUEZ Liliane

Title :

information theorie

Abstract :

This course gives the essential concepts of l' Data analysis, which takes a great rise with the development of average data processing

Plan :

- # Introduction
- # Analyzes factorial * analyzes in principal components * analyzes correspondences
- # Classification automatic
- # Different methods * dynamic clouds * segmentation * analyzes discriminating * analyzes multicriterion

Prerequisite :

basic notions of statistics

Document(s) :

Documents distributed during the course

Keyword(s) :

factorial analysis, principal classification, regression, main components

Online course :

not

IS103 : Information Theory

Shared by choice module(s) :

IS100 Analyse des données et Théorie de l'information

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ECTS credits :

1.50

Evaluation :

S1: ET(2h) x1

Number of hours :

Lecture : 16.00

Individual work : 12.00

Teacher(s) :

SAHEB Nasser

Title :

Information Theory

Abstract :

This (short) course gives an introduction to information theory (entropy, digital transmission and application to coding) and its transmission over memoryless noisy channels.

Plan :

1. General notion on the information theory
2. Coding theory
3. Optimal codes, Huffman algorithm
4. Noisy channels, capacity

Prerequisite :

IS 101 : Discrete probability theory

Document(s) :

documents allowed

Keyword(s) :

information, entropy, coding, digital transmission, memoryless channels, Shannon, Fano

Online course :

yes