

Machine Learning

Practical work 03 - Unsupervised Learning

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Introduction

Use Self-Organized Maps (SOM) as a means for clustering and visualization purposes using a collection of images.

Practical work

1. Explore the use of Self-Organizing Maps

We will provide you with a database of color images, a set of three feature extraction methods and a SOM library. You may setup diverse experiments with the database, which contains a lot of classes. You should apply the three feature extraction methods and observe the results, and you have to modify the configuration and learning parameters of the SOM algorithm

Report

Simply follow the instructions on the notebook SOM_part2.

Summary for the organization:

- Submit the solutions of the practical work before Wednesday 23.5.2018, 23h55 via Cyberlearn.
- Modality: PDF report
- The file name must contain the number of the practical work, followed by the names of the team members by alphabetical order, for example 03_dupont_muller_smith.pdf.
- Put also the name of the team members in the body of the report.
- Only one submission per team.