Machine Learning (ml module)

Use the powerful machine learning classes for statistical classification, regression and clustering of data.

- **Introduction to Support Vector Machines**

  Languages: C++, Java, Python

  Compatibility: > OpenCV 2.0

  Author: Fernando Iglesias García

  supervised learning models with associated learning algorithms that analyze data for classification and regression analysis

  Learn what a Support Vector Machine is.

- **Support Vector Machines for Non-Linearly Separable Data**

  Languages: C++, Java, Python

  Compatibility: > OpenCV 2.0

  Author: Fernando Iglesias García

  Here you will learn how to define the optimization problem for SVMs when it is not possible to separate linearly the training data.

- **Introduction to Principal Component Analysis (PCA)**

  Languages: C++, Java, Python

  Compatibility: > OpenCV 2.0

  Author: Theodore Tsesmelis

  technique for reducing the dimensionality of such datasets, increasing interpretability but at the same time minimizing information loss

  Learn what a Principal Component Analysis (PCA) is.