

TheDemoBox 2.0

Date: 2004-07-06

Developers: Björn Sällström, Johan Viklund

Supervisors: Tomas Olofsson, Mats Gustafsson

Signals & Systems, Uppsala university

www.signal.uu.se

DISCLAIMER: See end of file

Welcome to TheDemoBox 2.0!

The Demo Box contains a number of Matlab demonstration programs concerning some basic concepts in statistical pattern recognition and multivariate data analysis. The demos are developed to serve as a self-study complement to university courses within these areas.

To get started

Browse your Matlab window to the folder TheDemoBox 2.0. Type
demoBox

and press return to open the selection window. You can now easily access any demo from the different areas within TheDemoBox 2.0.

Structure

Every (almost) folder with files in TheDemoBox 2.0 contains one or more demonstrations. All folders are self-supporting units, and can be copied and used in isolation. All executable demonstration files start their names with "demo". (All other files are support files) To run a single demo, browse your Matlab window to the same folder as the file you want to run. Then simply type the name of the file into the Matlab window (e.g. demoLinReg) and press return.

Software requirements

Matlab® 6.0 (or later)

NOTE! Screen Area limitations

For the demo windows to appear properly, your computer screen area should have a certain pixel size. The optimal screen size around 1152 x 864 pixels.

Too large screens areas will cause the text and windows to appear very small.

Too small screens areas will cause the windows to appear outside the screen.

To change the screen area of your computer, go to...

(START menu)

(Settings)

(Control Panel)

(Display)

(Settings)

...and move the little handle under Screen Area

Currently available demos

Name	Study area
demoKNNClass	(Classification)
demoHierClust	(Clustering)
demoKMC	(Clustering)
demoHist1d	(Estimation of Probability Density Function)
demoHist2d	(Estimation of Probability Density Function)
demoKernel	(Estimation of Probability Density Function)
demoKNN	(Estimation of Probability Density Function)
demoLinReg	(Regression)
demoOptReg2d	(Regression)
demoFisher	(Visualisation)
demoPCA2d	(Visualisation)
demoPCA3d	(Visualisation)
demoPCAvsFisher	(Visualisation)
demoPoly	(Function approximation)
demoRBF	(Function approximation)
demoMLP	(Function approximation)
demoEM	(Maximum likelihood algorithms)
demoHMM	(Hidden Markov models)
demoHMMTrain	(Hidden Markov models)

Disclaimer

TheDemoBox 2.0 is free for all non-commercial users. Signals & Systems are not eligible for code or algorithm errors and all use is at your own risk. Please report bugs and comments to Tomas Olofsson, tomas.olofsson@signal.uu.se