

































Training the network
Units are pulled to the positions of the data, dragging with them their grid neighbours
SOM ≈ rubber sheet, stretched and twisted so that it passes in (or near) the places where the data patterns are































1.4 V.Lobo, EN 2010





How can I see results? -U-Matrices (U-MAT) -Calibration (or labeling) -Component planes -Others























Available Software









Maritime and GIS Applications

# Clustering and classification Satellite or remotely sensed images, and other data sets Cluster pixels to reduce the number of patters Manually classify a few pixels Use the manually classified pixels to automatically classify the others [Niang 2003][Leloup 2007][Liu 2007][Cavazos 2000][Liu 2002,2007,2008][Tozuka 2008][Solidoro 2007]... Control of Underwater Autonomous Vehicles Detecting anomalous behavior of ships Predicting tides in estuaries Studying the movements of fluids





























