

AbstractMethod and System for Automatically Assigning Class Labels to Objects

A method of automatically assigning class labels to objects is provided. The method uses object data indicative of a plurality of parameters associated with each object. The method comprises (i) identifying, from the object data or from a lower-dimensional encoding of the object data, a plurality of cluster centres in a d-dimensional space, each cluster centre corresponding to one of the class labels; (ii) for respective cluster centres, determining a surrounding region based on a nearest neighbour cluster centre, and assigning the respective class label to objects within the surrounding region; (iii) generating a predictive model using the object data, or the lower-dimensional encoding of the object data, and the class labels of the assigned objects; and (iv) assigning class labels to unassigned objects using the predictive model. A corresponding system for performing the above method is also provided.

[Figure to accompany abstract: Fig. 3]