**Smart Case Mining via Membrane Clustering**

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Abstract:

It brings challenges to create added value by converting large amounts of raw data into smart data that contain a small number of highly representative cases. In this talk we will present the proposed method of smart case mining based on tissue like membrane clustering (MC). The MC exploited in our method is parameter free, able to decide the number of clusters automatically. Further, the impurity of clusters has been incorporated into the objective function to enforce the clustering algorithm to find possibly pure clusters of single classes. The effectiveness of the proposed case mining method has been demonstrated in terms of compression ratio and classification accuracy on a set of benchmark data sets.