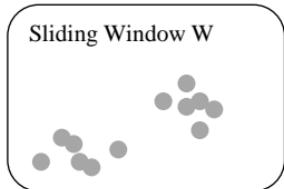


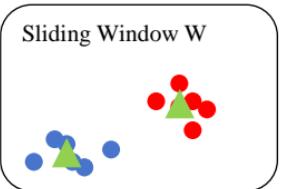
The streaming data



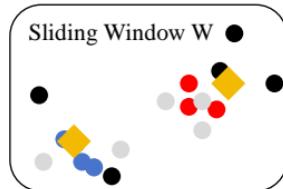
Stage 1: Incremental Clustering in Sliding Window.



Establish the sliding window.



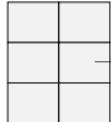
DPC-guided stable initialization



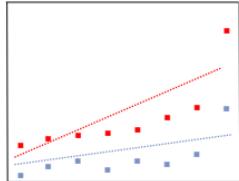
New data points
The old point to remove
New cluster centers



Stage 2: Real-time Incremental OFV Maintenance.



OFV History



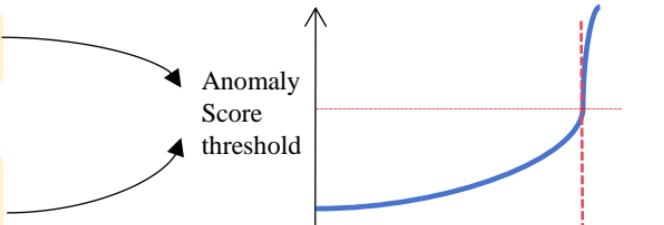
Fitting curve of total OFV value change.

Update the total OFV value of each dimension.

Stage 3: Derivative-Based Anomaly Scoring.

OFV of each dimension

The slope of the curve was fitted to the total OFV value



Output: Anomaly/Normal Label for X_{new}