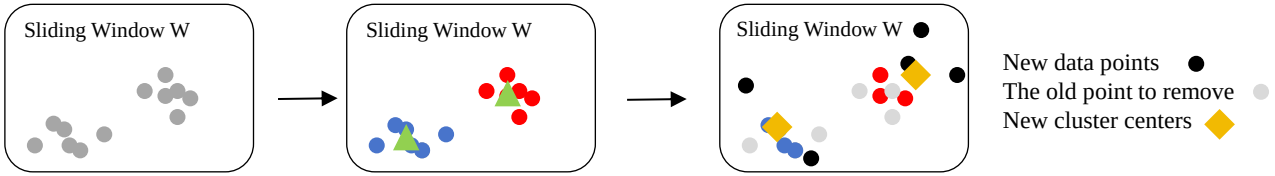
The streaming data

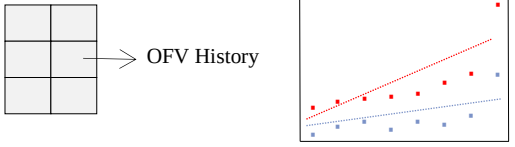
Stage 1: Incremental Clustering in Sliding Window.



Establish the sliding window.

DPC-guided stable initialization

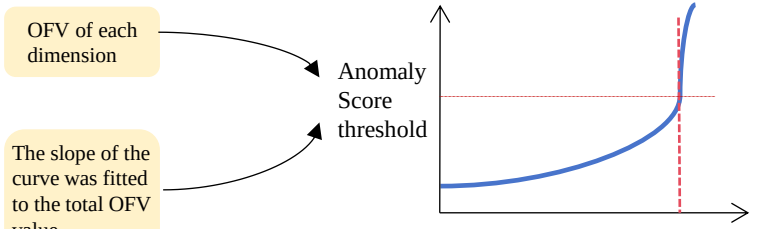
Stage 2: Real-time Incremental OFV Maintenance.



Update the total OFV value of each dimension.

Fitting curve of total OFV value change.

Stage 3: Derivative-Based Anomaly Scoring.



Output: Anomaly/Normal Label for X_{new}