

# Review of: "A Novel Framework for Concept Drift Detection using Autoencoders for Classification Problems in Data Streams"

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Potential competing interests: No potential competing interests to declare.

Aiming at the problems existing in unsupervised drift detection methods the authors proposed Autoencoder-based Drift Detection Method (AE-DDM).

## Contributions

- 1.The authors proposed a novel framework for unsupervised drift detection based on the deep learning autoencoder technology.
- 2.A brief comparison of available drift detection approaches with proposed properties of an ideal drift detector
- 3.A synthetic Gaussian dataset for drift detection is created and the counting threshold is combined with the batch threshold to counter false alarms in drift detection.

## Cons:

- 1.Only some of the earlier baselines were compared in experiments, and the latest baseline NLinear is published in 2022. It is necessary to compare with the recent work.
- 2.The experiments in Section 4.1 did not explore the influence of different number of layers and input dimensions for the automatic encoder.
- 3.Only MSE was used as an evaluation index. Why didn't consider other evaluation indexes?