

random_state = 42

Is this really AI governance?

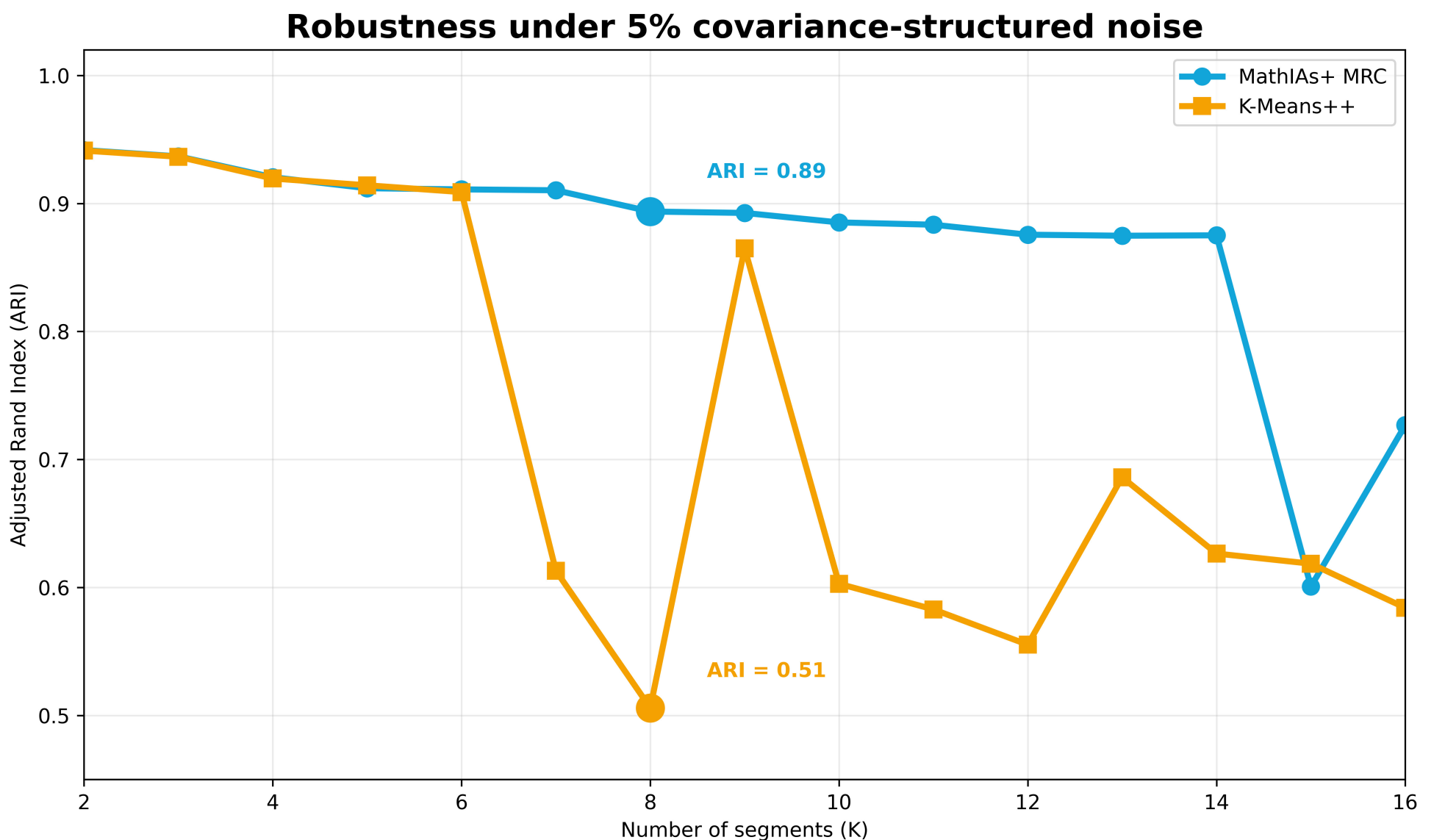


Episode 2 : Robustness

A 5% Robustness Stress Test

French presidential elections: 68,236 polling stations $\times$ 23 electoral features

The added 5% noise follows the covariance structure of the original data.



If a small perturbation changes the segmentation, the resulting business decisions may also change.

Same perturbation. Different segmentation.

French presidential election data
68,236 polling stations · 23 features · 8 segments

MathIAS+ MRC

ARI = 0.89

✓ Segmentation
largely preserved

K-Means++

ARI = 0.51

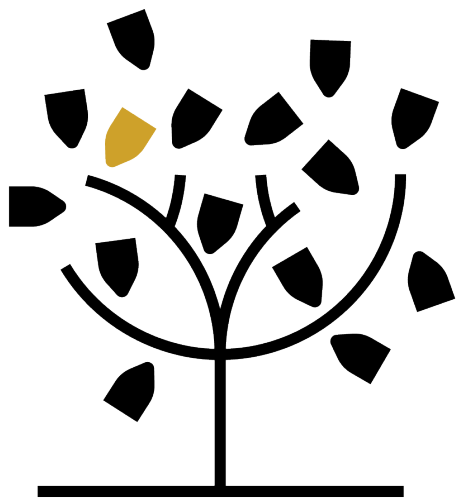
⚠ Many
assignments
changed

ARI measures agreement between the original and
perturbed segmentations.

1.0 means identical assignments.

**The data changed slightly.
The segmentation shouldn't.**

**A reproducible
execution is not
the same as a
robust
segmentation.**



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