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Timely detection of turning points:
Should I use the seasonally adjusted or trend estimates?

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Title: Timely detection of turning points: Should I use the seasonally adjusted or trend estimates?


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Abstract:

The timely and accurate detection of turning points is an important issue in analysing time series data. Users are often interested in determining if a time series is approaching a turning point. We compare seasonally adjusted and trend estimates, derived using the X11 framework, for the detection of turning points and assess if there is a trade-off between the time detection of turning points and the risk of false turning points. We also investigate whether there exists a potential relationship between features of a series and detection of its turning points. Real and simulated data are used as examples.

Key words: trend, seasonally adjusted, X11