

Outline

Notation reminder

- Data: $\mathbf{y}_t = \mathbf{S}\mathbf{b}_t$ where \mathbf{S} is a summing matrix and \mathbf{b}_t is a vector of disaggregated time series
- Base forecasts: $\hat{\mathbf{y}}_{T+h|T}$
- Reconciled forecasts: $\tilde{\mathbf{y}}_{T+h|T} = \mathbf{SG}\hat{\mathbf{y}}_{T+h|T}$
- MinT: $G = (S'W_h^{-1}S)^{-1}S'W_h^{-1}$ where W_h is covariance matrix of base forecast errors.

Thief

thief paper

Daniele and Tommy's papers

References



Athanasopoulos, G, RJ Hyndman, N Kourentzes, and F Petropoulos (2017). Forecasting with temporal hierarchies. *European J Operational Research* **262**(1), 60–74.