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### **Some recent development in functional time-series forecasting**

We present a functional time-series approach to forecast a seasonal univariate time series, and propose dynamic updating methods to improve forecast accuracy. Our methods consider a seasonal univariate time series as a sliced functional time series, where the continuum is a time variable observed over a period of time. We consider functional autoregressive of order 1, functional kernel regression and functional principal component regression to forecast future realizations of a stochastic process. When data points in the most recent curve are partially observed, we aim to improve forecast accuracy by using dynamic updating methods. Not only we can provide point forecasts and update them in light of new information, but we can also construct and update a prediction interval through nonparametric bootstrapping. The functional time-series techniques are data-driven, computationally fast and have shown to give better forecast accuracy than the seasonal ARIMA. Hence, they are feasible to be applied in time-series analysis