

Unobserved Components Models in Economics and Finance

The role of the Kalman filter in time series econometrics

Andrew Harvey and Siem Jan Koopman

Economic time series display features such as trend, seasonal, and cycle which we do not observe directly from the data. The cycle is of particular interest to economists as it is a measure of the fluctuations in economic activity. An *unobserved components model* attempts to capture the features of a time series by assuming that they follow stochastic processes which, when put together, yield the observations. The aim of this article is thus to illustrate the use of unobserved components models in economics and finance, and to show how they can be used for forecasting and policy making.

Setting up models in terms of components of interest helps in model building; see the discussions in [1] and [2] for a comparison with alternative approaches. A detailed treatment of unobserved components models is given in [3]. The statistical treatment of unobserved components models is based on the state space form. The unobserved components, which depend on the state vector, are related to the observations by a measurement equation.

The Kalman filter is the basic recursion for estimating the state, and hence the unobserved

Readings In Unobserved Components Models

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