INSTITUTO TECNOLÓGICO AUTÓNOMO DE MÉXICO

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Seminario Aleatorio

Sesión 348

Wavelet Estimation for Dynamic Factor Models with Time-Varying Loadings

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Abstact

We introduce a non-stationary high-dimensional factor model with time varying loadings.

We propose an estimation procedure based on two stages.First, we estimate common factors by principal components. Afterwards, in the second step, considering the factors estimates as observed, the timevarying loadings are estimated by an iterative procedure of generalized least squares using wavelet functions. We investigate the finite sample features of the proposed methodology by some Monte Carlo simulations. Finally, we use this methodology to study the electricity prices and loads of the Nord Pool power market.

Viernes 29 de mayo de 2020, 10:45 hrs.
https://itam.zoom.us/j/98143765657?pwd=M1ZmK2M0cUEzTVNDdjQ4QXhGWEJ0UT09

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Working paper: https://pure.au.dk/portal/files/173504528/rp19_23.pdf

El Seminario Aleatorio está destinado tanto a profesores como a estudiantes, por lo que el Departamento de Estadística a los profesores que colaboren invitando a sus alumnos a estas sesiones.