El Departamento de estadística del ITAM

anuncia la siguiente sesión de

EL SEMINARIO ALEATORIO

que con el título

Efficient Method of Moments (EMM) Under Non Local Misspecification

impartirá

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ABSTRACT

EMM is a procedure for fitting the parameters of complex stochastic models that appear in science; the complexity of these models is such that their parameters are not amenable to be estimated directly by maximum likelihood. Instead, EMM uses the scores of an auxiliary model to generate moment constraints. The use of EMM is convenient when it is easy to simulate from the model of interest. The talk presents the asymptotic distributions related to EMM when the model of interest is not correctly specified. It is assumed a sequence of i.i.d. observations and a non local or global misspecification. The limiting distribution of the estimator is still asymptotically normal, but it suffers a strong impact in the covariance matrix. It is shown that this matrix depends on the joint covariance of both the estimator of the parameter and the information matrix from the auxiliary model. A similar thing happens for the estimated moment function. These results are used to discuss what would be required to get consistent estimators of these covariance matrices even in the presence of misspecification. Special attention is given to the situation when the moment conditions hold but the model is misspecified.

Fecha: Viernes 25 de Octubre
Hora: 12:30
Salón: Sala de Video I Biblioteca, 2. Piso

El Seminario ser dictado en español.

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