

Using Convex Combinations of Spatial Weight Matrices

Presenter: James P. LeSage

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Description:

This workshop will focus on cross-sectional and spatial panel regression models that rely on convex combinations of weight matrices. The workshop relies on my new Spatial Panel Data Toolbox for MATLAB (available for free at: www.spatial-econometrics.com).

Spatial regression models can rely on more than a single weight matrix, each with an estimated weight parameter that can be interpreted as indicating the relative importance of the type of connectivity described by each weight matrix. For example models for patent/knowledge production often rely on technological similarity between regions in place of spatial proximity of regions. A convex combination model would allow use of both spatial and technological weight matrices, with estimated parameters (say) 0.3 assigned to spatial weights matrix and 0.7 to the technological weights pointing to relatively more importance associated with technological similarity between regions.

Intended Audience:

Regional Scientists using spatial regression modeling in empirical studies.

Date and Time:

Wednesday, November 10, 10AM to 2PM. See online Conference program for room location.

For questions about the workshop, contact James LeSage at james.lesage@txstate.edu.