Spatial econometrics - contemporary interpretations

Waldemar Ratajczak

Adam Mickiewicz University, Poznań, Poland

Abstract

The term Spatial econometrics was introduced in the late 1970s by Paelinck J.H.P., Klaassen L.H. There are five fundamental characteristics of the new field:

(1) the role of spatial interdependence in spatial models,

(2) the asymmetry of spatial relations,

(3) the importance of explanatory factors located in other spaces,

(4) the differentiation between ex-post and ex-ante interaction,

and

(5) explicit modelling of space. Over the next years the interest of spatial econometrics focused primarily on the construction of regression models satisfying space-related assumptions, e.g. an assumption of the absence of spatial autocorrelation. The view adopted in the present paper is that spatial econometric models are closely related to the theory of space economy, hence they cannot be restricted to issues connected with the estimation of regression models. The paper presents a broader understanding of spatial econometrics.

Keywords

Spatial econometrics, Spatial autocorrelation, Spatial econometric models.