SPATIAL PANEL ECONOMETRICS APPROACHING FOR INDUSTRIAL SECTOR GDP MODELLING IN SWP GERBANGKERTASUSILA AND MALANG-PASURUAN

Name : Irma Fatmawati  
NRP : 1306 100 026  
Department : Statistika  
Supervisor : Dr. Ir. Setiawan, M.S  
Co Supervisor : M. Sjahid Akbar, S.Si. M.Si.

ABSTRACT

The industrial sector is one of sector that plays a major role in economic growth at East Java. Satuan Wilayah Pembangunan (SWP) Gerbangkertasusila and Malang-Pasuruan are two areas that have considered superior industrial sector and has a proximity location. Previous research on industrial sector GDP in East Java with spatial interaction only use data for one year so can’t examined the spatial specific effects. This study makes model of industrial sector GDP in SWP Gerbangkertasusila and SWP Malang-Pasuruan involving spatial interaction and using data for five years in order to know the spatial specific effects. Result model is spatial autoregressive model (SAR) and spatial fixed effect. Independent variables that influenced model is expenditure groups and labor groups. The coefficient of spatial lag and spatial effects are significant that indicated differences model of each SWP Gerbangkertasusila and Malang-Pasuruan.

Keywords : industrial sector of GDP, spatial, panel, interaction, specific effect