ABSTRACT
STUDY OF LAND USE CHANGE IN SUBURBAN AREA
(Case. Malang City-East Java Province)

In suburban of Malang city as the one of the phenomenon of urbanization process which caused by industry activity. It influence three factors i.e. population, density and migration that creates the expansion of built up area between urban to suburban area. In addition, the land use change is also caused by the imbalance between the demand for facilities and urban land use, so the tendency of society to live in suburban area is high. Thus the consequences of this phenomenon will be occurs land use change in suburban area.

The goal of this research is to analyze the variables that influence land use change in suburban of Malang city. There are some aspects to analysis this research i.e. population, density, migration, distance and occupation transformation. In addition, this research used quantitative approach based on secondary data. This analysis is done by three stages. *First*, delineation of study area, distinguished into two zones i.e. suburban area and rural area. The classification zone based on total built up area and accessibility. *Second*, to identify the characteristics of land use change. *Third*, assessing and analyzing the influence of land use change in suburban of Malang city by a simple regression and continued by a spatial regression.

Therefore, the results of this research are: 1st, the delineation area is located in Karangploso sub district, Singsosari sub district and Pakis sub district. 2nd , the characteristics of land use change show that population, distance, migration and occupation transformation are directly proportional to land use change, while the density level is contrast to land use change. This phenomenon can identify that density level is only located in surrounding industrial area. 3rd , the variables which influence the land use change model is population (X1), density (X2) and migration (X3) with the statistic model is $Y= 3733,646 – 0,140907 .W + 98,51888 X_1 – 341,7208 X_2 + 3579,966 X_3$

Key words : Land use change, suburban area, spatial regression