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Original Articles


Life Cycle and Environmental Factors in Selecting Residential and Job Locations

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various GIS modeling techniques to explore the effects of previously unanalysed variables on residential location decisions.

Keywords: Job accessibility residential location environmental factors neighborhood characteristics GIS
Detroit Area Study (DAS)

Notes

1 Some measured GIS variables such as open areas, parks, major retail facilities and health care facilities could not be included in the final model due to high correlation with some of the included variables such as natural scenic areas and neighborhood preferences, and a lack of significance.

2 The 'Type of Place' variable used in the 2001 DAS is made of four components and is defined by the minor civil divisions (MCDs) in which respondents live. The four components are: population size, whether or not the MCD is contiguous to the urban core (Detroit), whether or not the MCD is incorporated (cities, villages, towns—incorporated as opposed to townships—unincorporated), and density. 'Population Size & Incorporation': incorporated MCDs are classified in three size groups: 50 000–149 999 (large), 150 000–499 999 (medium), and 500 000 or more (small).

(townships) are classified in two size groups: 50 000–149 999 (large) and 150 000 or more (small to medium). Unincorporated MCDs that are not contiguous to the Detroit city limits (fringe areas) are classified in three size groups: 50 000–149 999 (large), 150 000–499 999 (medium), and 500 000 or more (small to medium). Unincorporated MCDs that are contiguous to the urban core are classified in three size groups: 50 000–149 999 (large), 150 000–499 999 (medium), and 500 000 or more (small to medium). Density is defined as the number of respondents per square acre (or where density is defined as the number of respondents per square block (more than 2 acres)).



3 A statistical test of significance of difference is applied for this descriptive statistics (chi-square is 75.1, $\{ \text{rm} < 0.0001 \}$.)

4 As a result of a statistical test of significance of difference (t-tests or chi-square tests), all show significance except for commuting time variable (t-value is 0.820 (0.412))

5 The 2001 Detroit Area Study (DAS) survey was collected through two different types of survey methods: mail and face-to-face interview.

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