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Evaluation of urban transportion indicators with emphasis on sustainable development (Case study: Andishe New City)

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ABSTRACT

This research aims on evaluation and prioritization urban transport sustainability indexes in Andisheh new city by descriptive-analytical methodology and application of factor analysis method. Surveying method was used in this research through questionnaire to collect data. Statistical population of this research was all citizens of Andisheh city. Sample volume was selected 383 persons by Cochran general formula, and simple random sampling and multistage clustering sampling methods were used to select sample population. Factor analysis statistics tests and T-test in SPSS software were used to analyze data to study the validity and reliability of questionnaire. After data analysis, two factors or indexes of "economic trip" or "green economy" with 0.61% cumulative variance in economic sustainability, two factors of "social welfare and justice" and "social security and health" with 0.61% cumulative variance in social sustainability, and one factor of "pure environment" factor with 0.62% cumulative variance in environment sustainability were extracted. Based on citizens ideas of Andisheh city and statistical analysis, economic trip index in economic sustainability, "social welfare and justice" index in social sustainability index and "pure environment" index in environment sustainability with values of -0.2549, -0.2488, and -0.3239, respectively didn't have proper conditions and have higher priorities. Therefore, it is suggested to have more emphasis and attentions on planning to promote these indexes.

Keyword:
Urban transport, sustainability indexes, Andisheh new city, factor analysis

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