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ANALYSIS OF THE RELATIONSHIP BETWEEN INTRA-URBAN VEGETATION CHANGE AND SOCIO-ECONOMIC DATA

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Abstract. Understanding the vegetation dynamics in urban areas in both quantitative and qualitative aspects is essential to population welfare and also to economic, social and environmental development. However, it is necessary appropriate tools for monitoring and analysis of the landscape dynamic in a systematic way. Therefore, this study proposes a methodology to analyze the relationship between intra-urban vegetation and the social-economic data using the integrated techniques of remote sensing and GIS as well as data mining. This research intends to answer questions such as: Is it possible to extract the intra-urban vegetation as well as identify the intra-urban vegetation changes from medium spatial resolution images and digital image processing techniques? Is it possible to establish a relationship between the intra-urban vegetation changes and social-economic information using data mining techniques?

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