## Urban Expansion Monitoring in Erbil City. Utilizing Remote Sensing tools in the Kurdistan Region



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## URBAN EXPANSION MONITORING IN ERBIL CITY. UTILIZING REMOTE SENSING TOOLS IN THE KURDISTAN REGION



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GRIN Verlag Dez 2015, 2015. Taschenbuch. Condition: Neu. Neuware - Master's Thesis from the year 2013 in the subject Geography / Earth Science - Cartography, Geographic Information Science and Geodesy, Sheffield Hallam University (Sheffield Hallam University), language: English, abstract: Monitoring urban land use/cover changes provide spatio-temporal information on the pattern and the amount of the changes that has taken place across the land use/cover classes, and the information obtained from the urban expansion are valuable for sustainable planning and management of urban resources. Remote sensing techniques provide fast and effective means for classifying and mapping urban land cove/use change through examining spectra characteristics of multi-dates satellite images. In recent years, Kurdistan region cities have witnessed a rapid growth of the urban rates due to previous socio-economic and political variations in the area. The purpose of the study is to analyse and visualize spatial pattern of urban land use changes in Erbil city-Kurdistan and to quantify the amount of variations in the land use classes by applying remote sensing approach. The research examines multi-dates Landsat 5 TM imageries for 1987, 2000 and 2011 by using supervised classification of maximum Likelihood classifier to display and measure the changes in the land use/classes in ERDAS 9.1 imagine processing software. The accuracy of the overall accuracy which rate from 95, 96.43 and 94.29 in 1987, 2000 and 2011 respectively, which indicates that the research has achieved a significant level of classes. The outcome of the study revealed that the study area has remarkably experienced changes in its land use/cover during the period of the study as built up area was increased by (3975.66 to 6123.7 hectares) over in 1987 to 2000, and (6123.7 to...

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