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Monitoring urban sprawl and land use change analysis of Rawalpindi using satellite imagery and geographical information system

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With the rapid increase in population, the urban area of cities grows larger and larger. This expansion increases many types of problems such as contaminated air and water quality and deforestation. This also has an effect on drainage patterns and soil characteristics of the city. The area of Rawalpindi city has been increased rapidly during the last twenty years, and resulted in an increment of urban area. One of the most modern, time saving and accurate techniques to observe this urban sprawl is to use remote sensing satellite images. For current research landsat TM images will be used. By using remote sensing and geographical information system techniques, land cover and land use, soil conditions and slope will be identified. Real time data from various departments will be used to verify research results.

Biography

Farooq Iqbal has completed his MPhil at the age of 26 years from COMSATS Institute of Information and Technology, Islamabad, Pakistan. He is Surveyor at Petroleum Exploration (Pvt) Limited, Islamabad.

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