

PREFACE

In the present era of 21st century, incessant urbanization coupled with rapid industrialization along with the decrease in the forest cover, all stemming from the root cause of population explosion, has led to manifold increase in urban area which in turn has made significant changes in the land surface. Thereby it has become important for all of us, to increase our awareness about such condition present around us and I hope this thesis would bring a better understanding of the phenomena of urban sprawl and the causes behind it. This research work attempts to answer some of the most fundamental question of the remote sensing with special reference to Pune City in the state of Maharashtra. It is a general perception that cities located in the desert region face extremes of temperature but with the help of various GIS techniques this paper provides a somewhat different and accurate analysis of the two cities in terms of land surface temperature.

Fast industrialization and associated relocation drove Pune to turn out to be quickly urbanized. Modeling, mapping and planning urban sprawl is fundamental for better economical turn of events. This paper analysis the pattern of urban sprawl in Pune city using remote sensing data and utilizing a buffer of 50km and joining slope analysis with spatial measurements devices utilizing FRAGSTATS. This project performs Spatiotemporal examination alongside the broad utilization of spatial class measurements to recognize the actual identify the actual cause of urban sprawl of Pune city.

For a better urban planning, planners must be well equipped to deal with such extremes of urban sprawl and for that a detailed insight into the area is concerned; thereby I hope that this paper can prove the way for better understanding of the urban sprawl of Pune city.