



ROLE OF REMOTE SENSING AND GEOGRAPHICAL INFORMATION SYSTEM IN CREATING FUTURE SMART CITIES

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Abstract : The rapid urbanization in India, due to fast paced population growth, has caused number of problems for the citizens of cities in terms of lack of drinking water, sanitation facilities, power, roads and infrastructure, etc. At present, no viable solution is seen that could address this demand and supply gap in the near future, except ‘Smart City Planning’. Smart city planning is crucial as it would help in balancing between the resources available and requirements of the citizens.



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In general, Smart means the one, who is well dressed, stylish, modish, clever, quick-witted, Energetic etc. Thus a smart city should also have such types of criteria for smartness. It means that it should be well dress in terms of infrastructure (physical, social), quick witted in terms of issues like social challenging, natural challenging, modish in terms of accepting new technology or new concept, to give a better life to common person, energetic in terms of development.

In order to have a sustainable development of a city, it is better to incorporate Remote Sensing and GIS based tools in the ‘Smart City Plan’. These tools may help in proper planning and the execution, as well, for the development of future smart cities and will act just like a human brain, which integrates all the sensors. A GIS decision support system (DSS) is a computer program application that integrates, analyzes and presents the complex data into relevant information which, in result, would help in creating, planning and developing smart cities.

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