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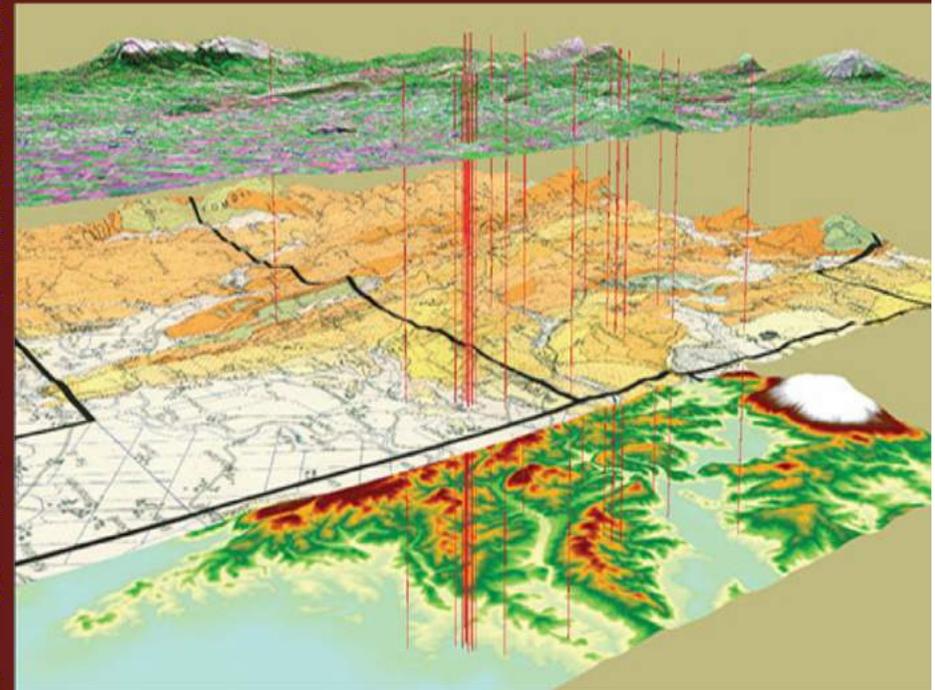
GEOINFORMATICS IN RESEARCH & DEVELOPMENT

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IN RESEARCH & DEVELOPMENT

Edited by

Dr. Tapati Banerjee



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EDITORIAL DESK

Geoinformatics today is closely related with location specific research to find out the trend along with foresee the users need. It is now coordinating with GI Industry, GI Scientists and technologists to analyse the real time scenario in the highly dynamic environment. The key factors which we need to look into is the data access for visualization, spatial analysis and planning to optimize the processes in managing infrastructure or logistics. The advancement of geospatial technology leading to the automation and user-friendly analysis to make spatial research faster, easier and in a more accurate manner. Further, the availability of high-resolution satellite data has marked a significant tied with global information system which is a key element of geoinformatics. S.W.Aleksandrowicz (2001), a geologists, considers 'geoinformatics' to be a good field for the specialists engaged in mutually dependent and complementary disciplines in a collaborative way for multi-disciplinary and cross-disciplinary research. According to him, Geoinformatics can be understood as the union of informatics and the earth sciences from a semantic point of view.

In this edited volume of Geoinformatics in Research and Development the emphasis has been given on the methodology of environmental data collection using indigenous, cost-effective and user-friendly tools through satellite-based navigation system, application of geospatial technology in physical-social-cultural research for humanitarian and societal development.

PREFACE

Nowadays India is passing through a phase of cognitive development. To meet the need of Global Excellency in every aspect is the major challenge of this country and to cope up this need, from primary to quinary, every sector needs a revolution i.e. Digital Revolution. Hopefully, India has caught the line of change and has transformed herself into the new Digital Era by adopting a new information regime through its 'Digital India' program to support good governance, sustainable development goals and empowerment of its citizens. In that case, since the last three decades, Geospatial technology possesses an important role to cater these types of situations. Nowadays, India is also evolving its own Geospatial Ecosystem and the basic purpose of it is to improve the provision of geospatial data and information into the public domains as well as to strengthen the institutional capacity by enhancing the performance of the organizations. In this context, developing and improving the technical capacity at the individual level, remains as the key factor for the success of this change. Hence, addressing these issues SAIARD has taken this initiative to publish this book to support the mission of Geospatial Nation of India.

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