

## **About the Book**

Application of mathematics play a key role in the lithosphere, hydrosphere, biosphere and atmospheric climate change causing natural disasters influencing fundamental aspects of life-supporting systems and other geological processes affecting 'planet earth' due to an increase in the complexity of the problems faced by the geoscientists, a common effort is required to establish innovative conceptual and numerical models to develop new paradigms. The transformation from descriptive stage to a more quantitative stage involves qualitative interpretations (i.e. conceptual models) complemented with quantitative interpretations (i.e. numerical models, fast dynamic geologic model, deterministic and stochastic models).

It is the perspective of these proceedings of IAMG2014 conference in new delhi to explore the current state of-the-art development and to apply geostatistical and geospatial technologies for the assessment and management of natural resource exploration, environmental pollution, hazards and natural disaster research in modern science and technology. The proceedings cover mathematical geosciences and geostatistics, environmental geochemistry and pollution, tectonic activity and natural disaster, modeling and simulation, remote sensing and geoinformatics, and meteorology and climate change.

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