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below illustrates several aspects
of the growing value propositions
associated with 3D geo-
information, e.g., 3D city models,
which enable a wide variety of
urban applications ranging from 3D
cadastre, noise propagation, and
energy demand estimation to
shadow estimation and solar
potential analysis. Figure 1.
Potential applications of 3D city
models [4]. These 3D innovations
have been shown to deliver
traditional public sector reform

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The integration of the 3rd dimension in the production of spatial representation is largely recognized as a valuable approach to comprehend our reality, that is 3D. During the last decade

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developments in 3D Geoinformation (GI) system have made substantial progress. We are about to have a more complete spatial model and understanding of our planet in different scales. Hence, various communities and cities offer 3D landscape and 3D city models as valuable source and instrument for sustainable management of rural and urban resources. Also municipal utilities, real estate companies benefit from recent developments related to 3D applications. In order to present recent developments and to discuss future trends, academics and practitioners met at the 7th International Workshop on 3D Geoinformation. This book comprises a selection of evaluated, high quality papers that were

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presented at this workshop in May 2012. The topics focus explicitly on the last achievements (methods, algorithms, models, systems) with respect to 3D GeoInformation requirements. The book is aimed at decision makers and experts as well at students interested in the 3D component of geographical information science including GI engineers, computer scientists, photogrammetrists, land surveyors, urban planners, and mapping specialists.

The book covers the international state-of-the-art research in the field of 3D geo-information modeling. It focuses on comparing several types of 3D models. Due to the rapid developments in sensor techniques more and more 3D data

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becomes available. Effective algorithms for (semi) automatic object reconstruction are required. 3D analysis and 3D simulation techniques explore and extend the possibilities in spatial applications.

Nowadays 3D Geoinformation is needed for many planning and analysis tasks. For example, 3D city and infrastructure models are paving the way for complex environmental and noise analyzes. 3D geological sub-surface models are needed for reservoir exploration in the oil-, gas-, and geothermal industry. Thus 3D Geoinformation brings together researchers and practitioners from different fields such as the geosciences, civil engineering, 3D city modeling, 3D geological and

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geophysical modeling, and, last but not least, computer science. The diverse challenges of 3D Geoinformation Science concern new approaches and the development of standards for above- and under-ground 3D modeling, efficient 3D data management, visualization and analysis. Finally, the integration of different 3D approaches and data models is seen as one of the most important challenges to be solved.

In recent years 3D geo-information has become an important research area due to the increased complexity of tasks in many geo-scientific applications, such as sustainable urban planning and development, civil engineering, risk and disaster management and

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environmental monitoring. Moreover, a paradigm of cross-application merging and integrating of 3D data is observed. The problems and challenges facing today ' s 3D software, generally application-oriented, focus almost exclusively on 3D data transportability issues – the ability to use data originally developed in one modelling/visualisation system in other and vice versa. Tools for elaborated 3D analysis, simulation and prediction are either missing or, when available, dedicated to specific tasks. In order to respond to this increased demand, a new type of system has to be developed. A fully developed 3D geo-information system should be able to manage 3D geometry and topology, to integrate 3D geometry

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and thematic information, to analyze both spatial and topological relationships, and to present the data in a suitable form. In addition to the simple geometry types like point line and polygon, a large variety of parametric representations, freeform curves and surfaces or sweep shapes have to be supported. Approaches for seamless conversion between 3D raster and 3D vector representations should be available, they should allow analysis of a representation most suitable for a specific application.

This book covers fundamental aspects of spatial data modelling specifically on the aspect of three-dimensional (3D) modelling and structuring. Realisation of "true"

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3D GIS spatial system needs a lot of effort, and the process is taking place in various research centres and universities in some countries. The development of spatial data modelling for 3D objects is the focus of this book.

The Workshop Proceedings reflect problems of advanced geo-information science as far as they are specifically concerned with the maritime environment at large. The Proceedings incorporate papers presented by leading scientists researching in the considered professional area and by practitioners engaged in GIS and GIS applications development. They pay close attention to the problems of scientific and technological innovations and the

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ensuing opportunities to make seas safer and cleaner. Furthermore, they periodically measure the ground covered and new challenges with respect to economic and shipping trends as related to Artificial Intelligence; GIS ontologies; GIS data integration and modelling; Underwater acoustics; GIS data fusion; GIS and corporate information systems; GIS and real-time monitoring systems; GIS algorithms and computational issues; Novel and emerging marine GIS research areas; Monitoring of maritime terrorist threat; Maritime and environmental GIS; Navigation-based and maritime transportation GIS; Human factors in maritime GIS; Coastal and environmental GIS.

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Spatial technologies like GIS, CAD, and spatial DBMS have proved their applicability and usability in almost every sector of urban development. Urban Planning Systems, Public Participation Systems, and others have been continuously developed and improved contributing to better decision making, communicating ideas between different actors as well as

The two volume proceedings of CCIS 698 and 699 constitutes revised selected papers from the 4th International Conference on Geo-Informatics in Resource Management and Sustainable Ecosystem, GRMSE 2016, held in Hong Kong, China, in November

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2016. The total of 118 papers presented in these proceedings were carefully reviewed and selected from 311 submissions. The contributions were organized in topical sections named: smart city in resource management and sustainable ecosystem; spatial data acquisition through RS and GIS in resource management and sustainable ecosystem; ecological and environmental data processing and management; advanced geospatial model and analysis for understanding ecological and environmental processes; applications of geo-informatics in resource management and sustainable ecosystem.

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