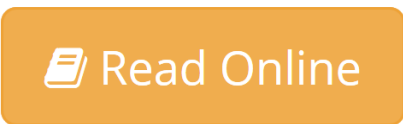


3D Cadastre in an International Context: Legal, Organizational, and Technological Aspects


By Jantien E. Stoter, Peter van Oosterom




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The increase in private property value, growth of underground and multilevel development, and the emergence of 3D technologies in planning and GIS drives the need to record 3D situations in cadastral registration. **3D Cadastre in an International Context: Legal, Organizational, and Technological Aspects** demonstrates how to record 3D scenarios in order to improve insight into overlapping constructions.

This book emphasizes the technical aspects of cadastral registration, focusing on four main topics: context (in which 3D situations in seven countries are studied); the framework for modeling 2D and 3D situations; models for a 3D cadastre; and realization of a 3D cadastre. The book presents preliminary solutions for issues related to efficient methods for 3D data collection, 3D data structuring and modeling, organization of 2D and 3D objects in one environment, 3D database creation and 3D analyzing.

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Editorial Review

Review

...-the rigour in the book is to be found in Part II, and particularly in the discussion of geo-spatial database management systems. For anybody who has expertise in or curiosity about topological structures, geometrical primitives or ISO standard 19107 on GIS schema, then this book will be of much interest. It ably advances the debate-albeit along technical lines-about how to represent the full spatial extent of legal rights in a digital medium. To the extent that Stoter's thesis forms the core of this book, then Robertson Davies' further observation that the thesis stamps us for life as creatures of guaranteed intellectual worth is a fitting epigram for the book.

-Brian Ballantyne, *Geomatica*, Vol. 60, No. 3, 2006

This book brings to the fore a series of considerations for the state of land registration that have not been needed in the past but which seem mandatory for the future.

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