



Advances in 3D Geoinformation /

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Monografía

The book presents a collection of accepted papers from the 3DGeoInfo 2015 international conference held in Kuala Lumpur, Malaysia from October 28 – 30, 2015. All papers underwent double-blind review by experts from around the globe. The conference brought together pioneering international researchers and practitioners to facilitate the dialogue on emerging topics in the field of 3D geo-information. The focus areas include: - Data Collection and Modeling: advanced approaches for 3D data collection, reconstruction and methods for representation - Data Management: topological, geometrical and network models for maintenance of 3D geoinformation - Data Analysis and Visualization: frameworks for representing 3D spatial relationships, 3D spatial analysis and algorithms for navigation, interpolation, advanced VR, AR and MR visualisation, as well as 3D visualization on mobile devices - 3D Applications: city models, Cadastre, LBS, etc

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Contenido: Realistic benchmarks for point cloud data management systems -- Does a finer level of detail of a 3D city model bring an improvement for estimating shadows? -- Interactive and view-dependent see-through lenses for massive 3D point clouds -- Representative for CityGML instance models in BaseX -- A 3D LADM prototype implementation in INTERLIS -- Web-based tool for the sustainable refurbishment in historic districts based on 3D city model -- Comparison of 2D and 3D parameter-based models in urban fine dust distribution modelling -- Investigating semantic functionality of 3D geometry for land administration -- 3D complete traffic noise analysis based on CityGML -- Automatic semantic and geometric enrichment of CityGML building models using HoG-based template matching -- Stochastic buildings generation to assist in the design of right to build plans -- 3D marine administration system based on LADM -- A data model for the interactive construction and correction of 3D building geometry based on planar half-spaces -- The potential of 3D Dual Half-Edge (DHE) data structure for integrated 2D-space and scale modelling: a review -- Towards integrating BIM and GIS -- an end-to-end example from point cloud to analysis

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