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Nota di contenuto	An Open Source Approach for a Seamless BIM GIS Integration -- BIM based Life Cycle Assessment for Integrated Energy and Seismic Retrofit of Existing Buildings -- Assessment of Approaches to Enrich a Case Base for Design Decisions -- A Framework of ifcJSON based Digital Twin Platform for Monitoring Building Environment using BIM, IoT, and Semantic Web Technologies -- First Investigations of Advanced Operators for Consistent Spatial Modeling the Built Environment -- Development of an approach for digital diagnosis and monitoring of engineering structures using BIM as built models -- Enhancing design coordination across disciplines through incremental model updates and Inter discipline Conjunction Graphs.
Sommario/riassunto	This book gathers the latest advances, innovations, and applications in the field of information technology in civil and building engineering, presented at the 20th International Conference on Computing in Civil and Building Engineering (ICCCBE), held in Montreal, Canada on August

25-28, 2024. It covers highly diverse topics such as BIM, construction information modeling, knowledge management, GIS, GPS, laser scanning, sensors, monitoring, VR/AR, computer-aided construction, product and process modeling, big data and IoT, cooperative design, mobile computing, simulation, structural health monitoring, computer-aided structural control and analysis, ICT in geotechnical engineering, computational mechanics, asset management, maintenance, urban planning, facility management, and smart cities. Written by leading researchers and engineers, and selected by means of a rigorous international peer-review process, the contributions highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.