

Title (en)

SYSTEMS AND METHODS FOR RAPIDLY DEVELOPING ANNOTATED COMPUTER MODELS OF STRUCTURES

Title (de)

SYSTEME UND VERFAHREN ZUR SCHNELLEN ENTWICKLUNG VON KOMMENTIERTEN COMPUTERMODELLEN VON STRUKTUREN

Title (fr)

SYSTÈMES ET PROCÉDÉS POUR LE DÉVELOPPEMENT RAPIDE DE MODÈLES INFORMATIQUES ANNOTÉS DE STRUCTURES

Publication

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Application

EP 21907688 A 20211215

Priority

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Abstract (en)

[origin: WO2022132873A1] Systems and methods for rapidly developing annotated computer models of structures and properties is provided. The system generates three-dimensional (3D) models of structures and property using a wide variety of digital imagery, and/or can process existing 3D models created by other systems. The system processes the 3D models to automatically identify candidate objects within the 3D models that may be suitable for annotation, such as roof faces, chimneys, windows, gutters, etc., using computer vision techniques to automatically identify such objects. Once the candidate objects have been identified, the system automatically generates user interface screens which gather relevant information related to the candidate objects, so as to rapidly obtain, associate, and store annotation information related to the candidate objects. When all relevant annotation information has been gathered and associated with model objects, the system can create a list of materials that can be used for future purposes, such as repair and/or reconstruction of real-world structures and property. The system also allows for modeling of water damage of a structure, as well as generating lists of tasks for mitigating the water damage and associated costs.

IPC 8 full level

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