

Title (en)
AUTOMATIC GENERATION OF A VIRTUAL REALITY WALKTHROUGH

Title (de)
AUTOMATISCHE ERZEUGUNG EINES DURCHGANGS DER VIRTUELLEN REALITÄT

Title (fr)
GÉNÉRATION AUTOMATIQUE D'UNE TRAVERSÉE EN RÉALITÉ VIRTUELLE

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Application
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Abstract (en)
[origin: WO2020043942A1] The present invention relates to a method, a system and a computer program product for automatic generation of a virtual reality walkthrough based on building information model data. A plurality of space elements is found among serialized BIM data. A plurality of points of interest are automatically selected, each point of interest representing a location in one of the plurality of space elements. A viewpoint is calculated for each point of interest and a 360-degree image is rendered from the viewpoint that is associated with a respective one of the plurality of points of interest. One or more openings associated to each of the plurality of space elements are located, and adjacent space elements that are connected to the respective space element through via the openings are identified. A navigation point is placed at each opening connecting adjacent space elements. A navigation mesh comprising the plurality of points of interest and the plurality of navigation points is calculated. A virtual reality walkthrough data object is combined, the data object comprising the navigation mesh and links to the 360 images, and the data object is stored for future use.

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