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Rapid Three-dimensional Scene Modeling by Sketch Retrieval and Auto-arrangement

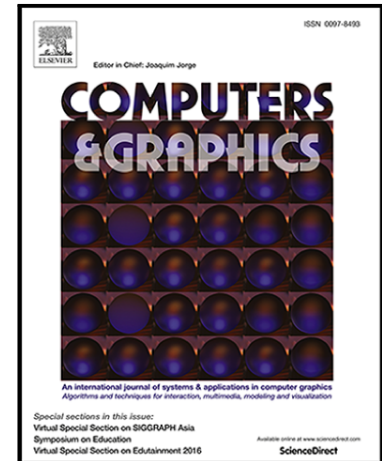
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Highlights

- A completed workflow for rapid 3D outdoor scene modelling is implemented.
- Sketch-based retrieval is improved by manifold ranking obtaining high accuracy.
- Energy function is composed by specific constraints designing for outdoor scenes.
- Auto-arrangement is optimized by PSO-SA algorithm efficiently.
- Effectiveness is proved by evaluations of practical experiments and user study.

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