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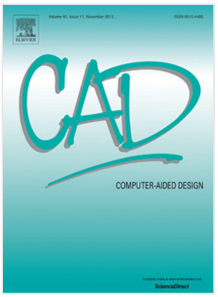

Self-supporting rhombic infill structures for additive manufacturing

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***Highlights (for review)**

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- Rhombic infill structures ensure the manufacturability of the shape interior
- Adaptively subdividing the rhombic grid can improve the objective function
- The method is exemplified by improving mechanical stiffness and static stability