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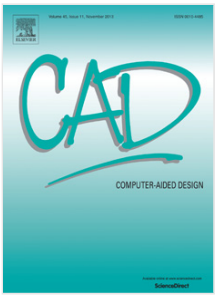

High-order curvilinear meshing using a thermo-elastic analogy

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Highlights

- We present a method to generate curved meshes using a thermo-elastic model.
- A linear elastic analogy is amended to include thermal stress terms.
- These terms ‘heat’ or ‘cool’ elements to allow for increased deformation.
- Both isotropic and anisotropic forms of the thermal stress tensor are presented.
- The method is demonstrated to have benefits in both two and three dimensions.