

## Accepted Manuscript

Isogeometric shape optimisation of shell structures using multiresolution subdivision surfaces

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PII: S0010-4485(17)30159-8

DOI: <https://doi.org/10.1016/j.cad.2017.09.006>

Reference: JCAD 2552

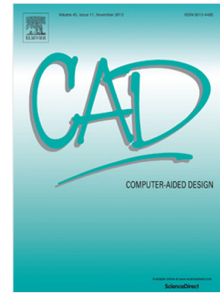
To appear in: *Computer-Aided Design*

Received date: 20 May 2016

Accepted date: 20 September 2017

Please cite this article as: Bandara K., Cirak F. Isogeometric shape optimisation of shell structures using multiresolution subdivision surfaces. *Computer-Aided Design* (2017), <https://doi.org/10.1016/j.cad.2017.09.006>

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Highlights:

- Isogeometric shape optimisation of shell structures using subdivision surfaces is proposed.
- For optimisation and analysis different resolutions of the same geometry are employed.
- Both triangular Loop and quadrilateral Catmull-Clark subdivision surfaces are considered.
- The influence of geometry parameterisation on optimisation results is studied in detail.
- The use of the proposed approach in an industrial design context is evaluated.

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