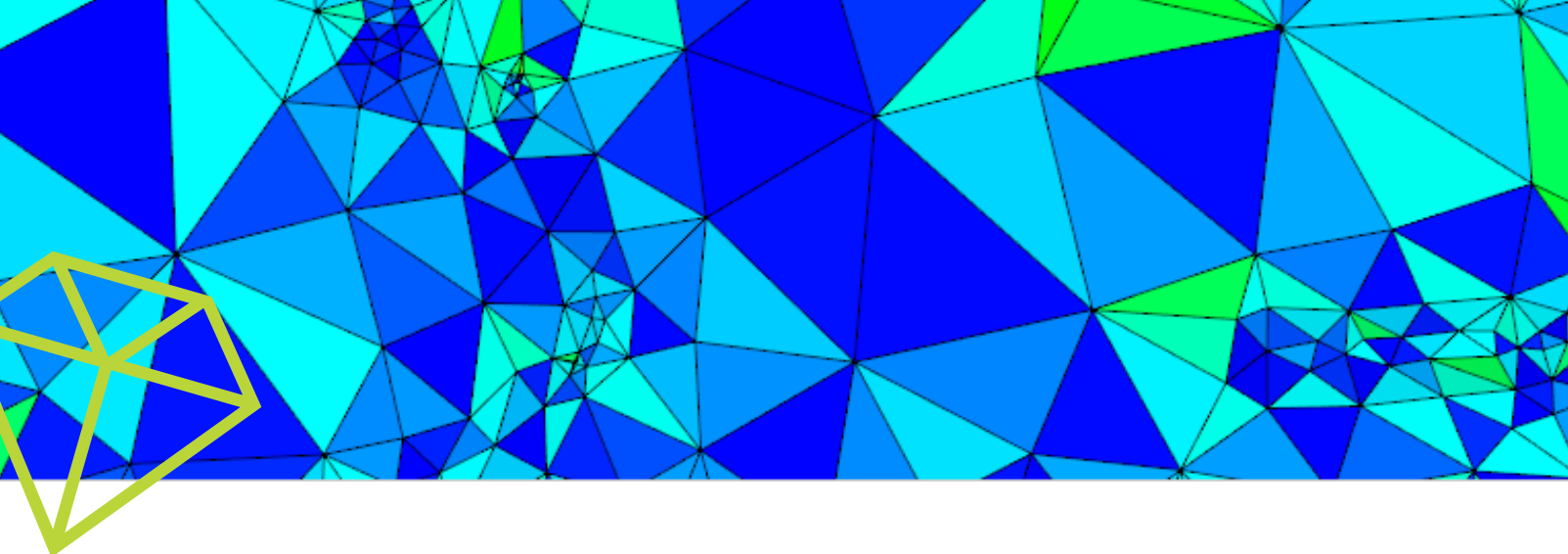




GETMe

optimise | represent

In a nutshell

**SMOOTHING
TRIANGULAR
MESHES**

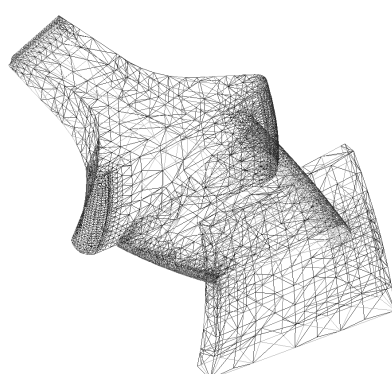
**MAXIMUM
OPTIMISATION**

**FASTER
BY FACTOR 5**

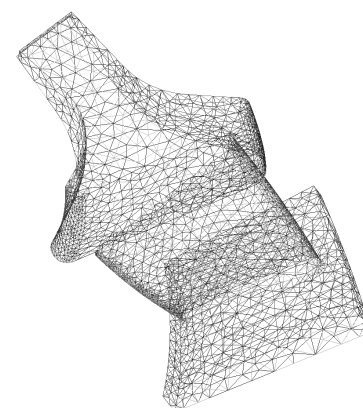
Geometric Element Transformation Method (GETMe) – with this method for smoothing triangular meshes you realise maximum optimisation of your meshes with a speed advantage of up to a factor of 5[1] compared to global optimisation methods.

GETMe achieves – at a higher speed – mesh qualities that could previously only be attained using global optimisation methods. Filling the meshes with volume elements, for example, is made possible without any problems using GETMe.

The method is suitable for improving all triangular meshes that represent a closed surface. Unlike global optimisation methods, efficient repositioning of mesh nodes is achieved by simple geometric transformations. The network topology, i.e. the connectivity structure, is changed as well, if applicable.



Surface mesh prior to GETMe application



Surface mesh after GETMe application

GETMe is also available as a web service. If you are interested in more information, you are welcome to contact us.

[1] Vartziotis, D./ Wipper, J./ Papadrakakis M.: Improving mesh quality and finite element solution accuracy by GETMe smoothing in solving the Poisson equation. Finite Elem. Anal. Des., 66:36-52, 2013.

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