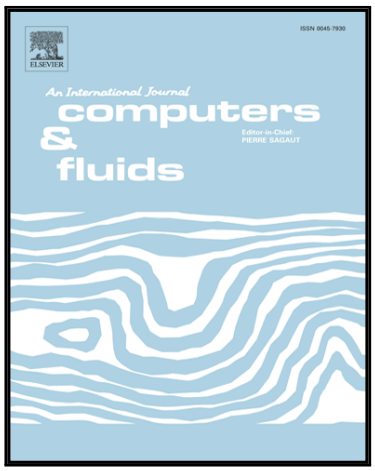

A new vertex-based limiting approach for nodal discontinuous Galerkin methods on arbitrary unstructured meshes

Longxiang Li , Qinghe Zhang

PII: S0045-7930(17)30371-7
DOI: 10.1016/j.compfluid.2017.10.016
Reference: CAF 3632

To appear in: *Computers and Fluids*

Received date: 1 January 2017
Revised date: 4 October 2017
Accepted date: 11 October 2017

Please cite this article as: Longxiang Li , Qinghe Zhang , A new vertex-based limiting approach for nodal discontinuous Galerkin methods on arbitrary unstructured meshes, *Computers and Fluids* (2017), doi: 10.1016/j.compfluid.2017.10.016

Highlight

- A new vertex limiter for the DG method on arbitrary unstructured meshes is proposed.
- Three different weighting functions are presented for the new limiter.
- The limiter is evaluated through three shock problems on different type of meshes.