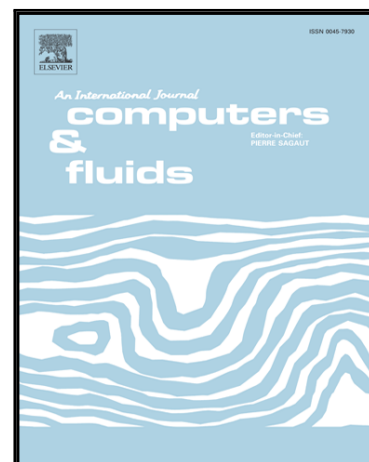


Accepted Manuscript

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](https://doi.org/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](https://doi.org/10.1016/j.compfluid.2017.10.016)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

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.

Download English Version:

<https://daneshyari.com/en/article/7156556>

Download Persian Version:

<https://daneshyari.com/article/7156556>

[Daneshyari.com](https://daneshyari.com)