## **Accepted Manuscript**

A new strain smoothing method for triangular and tetrahedral finite elements

Chaemin Lee, Phill-Seung Lee

PII:S0045-7825(18)30353-0DOI:https://doi.org/10.1016/j.cma.2018.07.022Reference:CMA 11994To appear in:Comput. Methods Appl. Mech. Engrg.Received date :17 April 2018Revised date :6 July 2018Accepted date :18 July 2018



Please cite this article as: C. Lee, P.-S. Lee, A new strain smoothing method for triangular and tetrahedral finite elements, *Comput. Methods Appl. Mech. Engrg.* (2018), https://doi.org/10.1016/j.cma.2018.07.022

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## ACCEPTED MANUSCRIPT

Highlights (for review)

We proposed a new strain smoothing method for triangular and tetrahedral finite elements.

Linear strain fields are constructed within elements without using special smoothing domains.

The proposed strain-smoothed elements pass patch, isotropic and zero energy mode tests.

Its improved performance is demonstrated through various numerical examples.

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