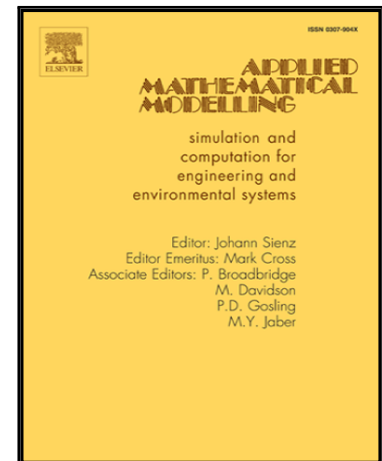


A Large Time Step explicit scheme ($CFL > 1$) on unstructured grids for 2D conservation laws: application to the homogeneous shallow water equations

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1 **Highlights**

- 2 • A new explicit technique to exceed the CFL=1 limit in 2D simulations
3 is proposed.
- 4 • It is specifically designed for unstructured triangular flexible meshes.
- 5 • The method is suitable for scalar and systems of conservation laws.
- 6 • It is applied to the 2D homogeneous shallow water equations

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