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Finite Volume approximations of the Euler system with variable congestion

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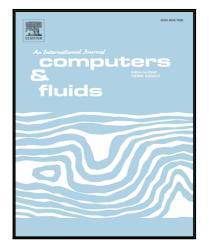
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Highlights

- We develop asymptotic preserving schemes for Euler system with variable congestion.
- Finite Volume schemes of first and second order in time and space are presented.
- Validation of the method on one-dimensional test cases.
- Model of the macroscopic motion of a crowd with individual congestion preferences.
- Typical features of crowd dynamics captured by two-dimensional simulations.

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