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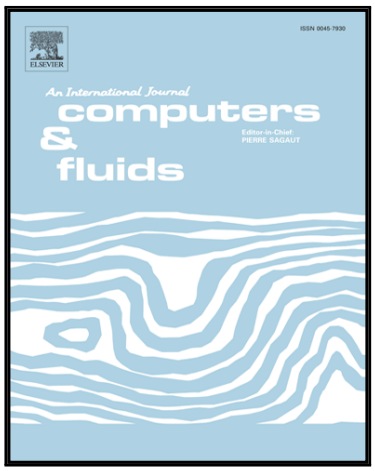

Analysis of Compressible Free Shear Layers with Finite-Time Lyapunov Exponents

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Highlights

- Finite-time Lyapunov Exponent technique provides insight into compressible flows.
- FTLE structures capture distinctive turbulent and inviscid features in flow.
- Attracting structures highlight coherent structures and dilatational consequences.
- High-frequency vortex dynamics & acoustics captured by repelling features.
- FTLE elucidates time-accurate relationship between key compressible phenomena.

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