



## Publicaciones: Análisis Numérico y Cómputo Científico.

- High-order entropy stable schemes based on a local adaptive WENO viscosity for degenerate convection-diffusion equations C Acosta, S Jerez Applied Numerical Mathematics 197, 322-343, 2024.
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- Fast and Optimal WENO Schemes for Degenerate Parabolic Conservation Laws R Diaz-Adame, S Jerez, H Carrillo Journal of Scientific Computing 90 (1), 1-28, 2022.
- Convergence of time-splitting approximations for degenerate convection-diffusion equations with a random source R Díaz-Adame, S Jerez Journal of Numerical Mathematics 29 (1), 23-38, 2021
- Triangular finite differences using bivariate Lagrange polynomials with applications to elliptic equations RI Balam, MU Zapata, U Iturrarán-Viveros Mathematics and Computers in Simulation 227, 121-148, 2025
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- Hexagonal finite differences for the two-dimensional variable coefficient Poisson equation RI Balam, MU Zapata, U Iturrarán-Viveros Examples and Counterexamples 5, 100144, 2024
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- A new sixth-order immersed interface method for solving Poisson equations with straight interfaces RI Balam, MU Zapata, JM Urquiza *Métodos numéricos para cálculo y diseño en ingeniería: Revista internacional*, 2023