

Novel numerical methods for the solution of nonlinear hyperbolic PDE's

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Short Description

Numerical methods for many nonlinear hyperbolic partial differential equations are confronted with new requirements concerning their qualitative properties that require some novelties when designing the methods. The mini-symposium shall discuss recent development of such novel numerical methods concerning the topics like high-order accuracy, non-oscillatory behavior, well-balancing, stable behavior for large time steps, asymptotic-preserving property and so on.