Recent advances in time numerical integration of evolutive problems

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ABSTRACT

The minisymposium aims to show the most recent results on the numerics for evolutive problems, based mainly on deterministic and stochastic differential operators. In particular, the minisymposium focuses on presenting new mathematical and computational developments, paying attention to accurate and robust numerical approximations, as well as to the conservation of the qualitative properties of the operator under investigation. The topics of the minisymposium covers (but are not limited to) deterministic and stochastic geometric numerical integration, nonlinear stability issues in time approximation of stochastic problems, numerics for deterministic and stochastic oscillatory problems and related issues. The theoretical analysis will also be supported by the numerical evidence obtained on non-trivial selected problems of interest in the applications.

REFERENCES


