



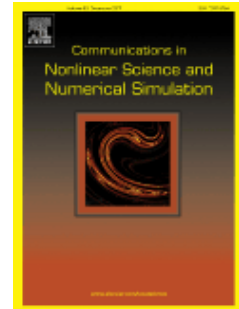
# COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION

## AUTHOR INFORMATION PACK

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### DESCRIPTION

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#### Aims:

The journal publishes original research findings on **experimental observation, mathematical modeling, theoretical analysis** and **numerical simulation**, for more accurate description, better prediction or novel application, of nonlinear phenomena in science and engineering. It offers a venue for researchers to make rapid exchange of ideas and techniques in **nonlinear science** and complexity.

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Nonlinear differential or delay equations, Lie group analysis and asymptotic methods, Discontinuous systems, Fractals, Fractional calculus and dynamics, Nonlinear effects in quantum mechanics, Nonlinear stochastic processes, Experimental nonlinear science, Time-series and signal analysis, Computational methods and simulations in nonlinear science and engineering, Control of dynamical systems, Synchronization, Lyapunov analysis, High-dimensional chaos and turbulence, Chaos in Hamiltonian systems, Integrable systems and solitons, Collective behavior in many-body systems, Biological physics and networks, Nonlinear mechanical systems, Complex systems and complexity.

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Physicists, Engineers, Mathematicians, Earth and Environmental Scientists involved in Nonlinear Science and Numerical Simulation.

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