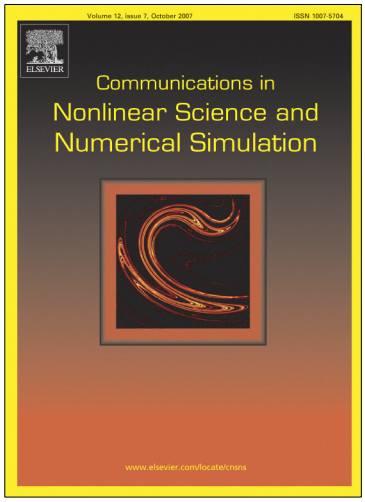
Communications in Nonlinear Science and Numerical Simulation



Aims and Scope

The journal publishes original research contribution on mathematical modelling, analytical approaches and numerical techniques, simulations for more accurate descriptions, predictions, experimental observations and applications of nonlinear phenomena in science and engineering. It provides a place to researchers for the rapid exchange of ideas and techniques in nonlinear science and complexity.

The manuscripts in nonlinear science and complexity, pertaining to fundamental theories and principles, analytical and symbolic approaches, computational techniques, are encouraged.

Topics of interest:

- Theories, and Principles and General Methods in Nonlinear Physical Science
- Fractional Calculus Theory and Applications
- Nonlinear Fluid dynamics and Turbulence
- Solitons and Fractals in Nonlinear Science and Engineering
- Chaos and Pattern Formation
- Stability and Bifurcation in Science and Engineering
- Nonlinear Dynamics and Nonlinear Control
- Computational Methods and Simulations in Nonlinear Science and Engineering
- Experimental Techniques and Observations in Nonlinear Science and Engineering
- Nonlinear Biological Physics, Ecology and Environmental Science
- Nonlinear Phenomena in Micro-Electro-Mechanical Systems (MEMS) and Nanoscience

Editors

A.C.-J. Luo
Department of Mechanical and Industrial Engineering, Southern Illinois University Edwardsville, IL 62026-1805, USA
Email: aluo@siue.edu

S. Ruffo
Dipartimento di Energetica, Via S. Marta 3, I-50139 Firenze, Italy
Email: stefano.ruffo@unifi.it

Wei-Mou Zheng
Institute of Theoretical Physics, The Chinese Academy of Sciences, Beijing 100080, China
Email: zheng@itp.ac.cn

Founder and Honorary Editor

Y. Chen
Department of Mechanics and Engineering Science, Peking University, Beijing 100871, China

Journal homepage: www.elsevier.com/locate/cnsns