



Special Issue Reprint

Nonlinear Dynamics in Complex Systems via Fractals and Fractional Calculus

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Edited by Viorel-Puiu Paun

ISBN 978-3-0365-8336-5 (Hardback) ISBN 978-3-0365-8337-2 (PDF)

Current advances in the knowledge of nonlinear dynamical networks, systems and processes, as well as their unified repercussions, allow us to include some typical complex natural phenomena, from the nanoscale to an extra-galactic scale, in an unitarian comprehensive manner. In other words, the physical, biological and financial data, as well as technological ones (mechanical or electronic devices), of complex systems available today can be managed by the same unique conceptual approach, both analytically and through a computer simulation, using effective nonlinear dynamics procedures. This volume collected some important advances in the fields of fractal curves, fractal analysis and fractional calculus, as well as new solutions of fractal differential equations. The works edited in the present technical publication are those that appeared in the *Fractal and Fractional* journal, in a Special Issue of the same name.



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