



# NONLINEAR ANALYSIS: REAL WORLD APPLICATIONS

## AUTHOR INFORMATION PACK

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### DESCRIPTION

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*Nonlinear Analysis: Real World Applications* welcomes all research articles of the highest quality with special emphasis on applying techniques of **nonlinear analysis** to model and to treat **nonlinear phenomena** with which nature confronts us. Coverage of applications includes any branch of science and technology such as solid and fluid mechanics, material science, mathematical biology and chemistry, control theory, and inverse problems.

The aim of *Nonlinear Analysis: Real World Applications* is to publish articles which are predominantly devoted to employing methods and techniques from analysis, including partial differential equations, functional analysis, dynamical systems and evolution equations, calculus of variations, and bifurcations theory.

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Parabolic PDEs, Formation of Singularities

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Parabolic PDEs, Population Biology

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Inverse Problems, Uniqueness, Conditional Stability, Regularization, Numerical Reconstruction, Mathematics for Industry.

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Stochastic Approximation, Stochastic Optimization, Stochastic Control and Stability, Numerical Methods for Stochastic Systems.

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Nonlinear dispersive wave equations; Shallow water wave equations

**F. Zanolin**, Università degli Studi di Udine, Udine, Italy

Population Dynamics, Boundary Value Problems for Ordinary Differential Equations.

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*Nonlinear Analysis: Real World Applications* welcomes all research articles of the highest quality with special emphasis on applying techniques of nonlinear analysis to model and to treat nonlinear phenomena with which nature confronts us.

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Reference to a book:

[2] W. Strunk Jr., E.B. White, *The Elements of Style*, fourth ed., Longman, New York, 2000.

Reference to a chapter in an edited book:

[3] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), *Introduction to the Electronic Age*, E-Publishing Inc., New York, 2009, pp. 281–304.

Reference to a website:

[4] Cancer Research UK, Cancer statistics reports for the UK. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/>, 2003 (accessed 13.03.03).

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