Advances in Nonlinear Analysis and Control

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Message from the Guest Editor

Nonlinear phenomena are responsible complex for systems behavior. We believe that nonlinearity constitutes the core of complexity, and nonlinear processes, their genesis, evolution, and termination, form the subject matter of this Special Issue.

In the present Issue, we would like to bring together studies on both theoretical aspects and real-world applications of nonlinearity; we are interested in natural and humanitarian science applications. Eugene Wigner, the other Nobel Prize winner, wrote about 'the unreasonable effectiveness of mathematics in the natural sciences'. We believe that pure and applied mathematics constitute the same field of science, and that complex systems theory bridges the gap between them.

It would be our pleasure to see your papers on complex systems, nonlinear science, self-organized systems, chaos theory, bifurcation theory, catastrophe theory, complexity, numerical methods, global models, nonlinear phenomena in natural and social sciences, language as a complex system, chaotic time series, AI and nonlinear processes, nonlinear control, and 'nonlinear' philosophy, to name just a few.

Special Issue

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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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