



## Nonlinear Differential and Integral Equations and Their Infinite Systems

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### Message from the Guest Editors

From the point of view of applications differential and integral equations form one of the most important subjects of mathematical sciences. It is worth mentioning that the theory of integral equations creates a complement of the theory of differential equations and provides a lot of handy tools used in that theory. In the present Special Issue we focus on some qualitative aspects of both mentioned theories. The particular attention is paid to the properties of solutions of nonlinear differential and integral equations connected with behaviour of those solutions, such as stability and asymptotic stability of solutions and their behaviour at infinity. Moreover, we study the solutions of infinite systems of nonlinear differential and integral equations treating such systems as realizations of differential and integral equations in sequence Banach spaces. We consider mainly classical sequence spaces such as  $C_0$ ,  $C$ ,  $l^\infty$ . We investigate properties of solutions of infinite systems of differential and integral equations defined on a finite interval as well as an infinite one.





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## Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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