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The Qualitative Theory of Functional Differential Equations and their Applications

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Message from the Guest Editors

Dear Colleagues,

Functional differential equations arise in many applied sciences fields. Very recently, there was an active research movement that mainly and significantly developed methods and techniques for studying the qualitative theory differential equations.

Delay differential equations (DDE) as a subclass of functional differential equations take into account the dependence on the history of the system, which results in predicting the future in a more reliable and efficient way. Neutral delay differential equations arise in various phenomena, including problems concerning electric networks containing lossless transmission lines (as in high-speed computers where such lines are used to interconnect switching circuits), in the study of vibrating masses attached to an elastic bar or in the solution of variational problems with time delays, or in the theory of automatic control and in neuromechanical systems in which inertia plays a major role...

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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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