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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Special Issue

Editor-in-Chief

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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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