Topical Collection

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Message from the Collection Editors

This Topical Collection will publish high-quality mathematical papers in the area of functional differential equations. Emphasis is placed on developments in the theory of delay differential, integrodifferential, impulsive differential, and difference equations and their applications. Possible paper topics include various boundary value problems; the positivity/negativity of their solutions; Green's functions and their properties; existence and uniqueness solutions of nonlinear boundary value problems; optimization and control theory; stability theory; oscillation and non-oscillation; variational problems; and the use of functional differential equations in technology, economics, biology, and medicine. In interdisciplinary approaches, which necessarily combine concepts and tools from different fields, mathematics is commonly the language used to merge all the different concepts into a unique model. Cross-border modeling and numerical simulation work within the subfields of physics and engineering are particularly welcome in this Topical Collection.

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