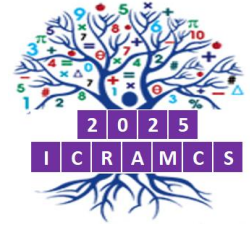


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New Perspectives on Stability Theory for Nonlinear Integro-Differential Systems

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- (1) Stability
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Abstract

In this study, integrability, boundedness and asymptotic stability of solutions of nonlinear Volterra integro-differential equations with and without retardations are investigated by using a new class of Lyapunov–Krosovskii functionals. In the study, the proofs of the main results are proceeded without using Gronwall's inequality. Some examples are also provided to verify the main results of the study.

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