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Youssef Naim Raffoul* (yraffoul1@udayton.edu), 300 College Park, Dayton, OH 45469-2316.
*Nonstandardized Discretization Scheme In Volterra Integro-differential Equations that Preserves
Uniform Asymptotic Stability.*

We apply a nonstandardized discretization scheme to continuous Volterra integro-differential equations and show that under our discretization, the necessary and sufficient conditions for uniform asymptotic stability are preserved for continuous dynamical system. Our analysis will be based on the notion of resolvent. An example will be provided as an application to our theory.

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