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Approximate solutions for integrodifferential equations of the neutral type

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Abstract: The main objective of the present paper is to study the approximate solutions for integrodifferential equations of the neutral type with given initial condition. A variant of a certain fundamental integral inequality with explicit estimate is used to establish the results. The discrete analogues of the main results are also given.

Keywords: approximate solutions, integrodifferential equation, neutral type, explicit estimate, discrete analogues, dependency of solutions, closeness of solutions

AMS Subject Classification: 34G20, 34A60

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