

عنوان مقاله:

Volterra Integro- Differential Equations in a Hilbert Space

محل انتشار:

دومین کنفرانس بین المللی علوم پایه و علوم مهندسی (سال: 1399)

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خلاصه مقاله:

In the Hilbert Space (???????) . Based on the concept of the reproducing kernelfunction combined with Gram-schmidt orthogonalization process, we represent an exact solutionin a form of fourier series in the reproducing kernel Hilbert space (???????)Accordingly, the approximate solution of the system of fuzzy Volterra integro-differentialequations is obtained by the n-term intercept of the exact solution and proved to converge to theexact solution. Finally, two numerical examples are presented to illustrate the reliability,appropriateness and efficiency of the method

کلمات کلیدی:

Hilbert space, Voltera differential equation, integral equation

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