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Integral Equation of first kind)

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~~Solution Of Nonlinear Volterra~~

A computational method for
numerical solution of a nonlinear
Volterra integro-differential

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equation of fractional (arbitrary)
order which is based on CAS
wavelets and BPFs is introduced.
The CAS wavelet operational
matrix of fractional integration is
derived and used to transform the
main equation to a system of
algebraic equations.

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~~Numerical solution of nonlinear
Volterra integro ...~~

Abstract In this paper, an effective numerical method for solving nonlinear Volterra partial integro-differential equations is proposed. These equations

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include the partial differentiations
of an unknown function and the
integral term containing the
unknown function which is the
"memory" of problem.

~~A numerical solution of nonlinear
parabolic type Volterra ...~~

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Volterra Fredholm Integral
The current study proposes a numerical method which solves nonlinear Fredholm and Volterra integral of the second kind using a combination of a Newton&ndash ...

~~Numerical Solution of Nonlinear~~

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Numerical solution of two-dimensional nonlinear Volterra integral S. Nemati, Y. Ordokhani
203 { F { } E PF3' where u ' u P
F3' P. Theorem 1: Let F F G , be the 2D shifted Legendre functions expansion of the real sufficiently

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Volterra Fredholm Integral
smooth function in t , where $F' \neq$
 $F' \neq F \neq FF G$ and

~~Numerical solution of two-
dimensional nonlinear Volterra ...~~
To change it into Volterra integral
equation of the second kind, we
differentiate the equation and

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obtain the following: To find the numerical solution in , we let , , , , and ; plug into integral equation , and let ; we obtain the following nonlinear system: We arrive at = . The error .

~~The Cardinal Spline Methods for~~

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~~the Numerical Solution of ...~~
The aim of this paper is to study and to obtain an approximate solution of non-linear Volterra integral equation of the second kind ,the researcher implemented the modified method by using specific examples involving

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Volterra integral equation to show
the capability and efficiency of
our approximate method
according to the exact solution in
addition to the ease in
programming the approximate ...

~~Numerical Treatment of Volterra~~

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A numerical method based on an NM-set of general, hybrid of block-pulse function and Taylor ...

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Volterra-Fredholm integral ...~~

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Equations of the Second Kind |
This paper presents a numerical
iterative method for the
approximate solutions of ...

~~A Numerical Method for Weakly~~

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Numerical methods for general Volterra integral equations of the second kind need $O(n^2)$ kernel evaluations and $O(n^2)$ additions and multiplications. Here it is shown how the effort can be reduced for nonlinear

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Volterra-Fredholm Integral convolution equations. Exploiting the convolution structure, most numerical methods need only $O(n)$ kernel evaluations.

~~Fast Numerical Solution of
Nonlinear Volterra Convolution ...~~
More concretely, this article

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Volterra Fredholm Integral
presents an efficient numerical
scheme for solution of nonlinear
delay Fredholm integral
equations, nonlinear delay
Volterra integral equations and
nonlinear delay Fredholm Volterra
integral equations which are
based on the use of Haar

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wavelets. Maximum absolute
errors and experimental rates of
convergence are ...

~~Efficient sustainable algorithm for
numerical solution of ...~~

3. Numerical solution. In this
section, we introduce a numerical

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method for the solution of
nonlinear 2D Volterra integral
equations of the form (1). For this
purpose, assume that (12) $H_1(x, t) = H(x, t, U(x, t))$, (13) $G_1(x, t) = G(x, t, U(x, t))$, (14) $F_1(x, t) = F(x, t, U(x, t))$. By using Eqs. , ,
, Eq.

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~~Numerical solution of a class of
two dimensional nonlinear ...~~

We approximate the solution of a
system of nonlinear mixed
Fredholm-Volterra
integro-differential equations of
the second kind, using fixed point

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techniques and Schauder bases in
certain ...

~~Solutions of system of Volterra
integro differential ...~~

In this paper, an efficient
numerical method is presented
for solving nonlinear stochastic

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Itô–Volterra Fredholm Integral
based on Haar wavelets. By the
properties of Haar wavelets and
stochastic integration operational
matrixes, the approximate
solution of nonlinear stochastic
Itô–Volterra integral equations
can be found.

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~~Numerical solution of nonlinear
stochastic Itô Volterra ...~~

Two new generic algorithm are
proposed for the numerical
solution of nonlinear Fredholm
integral equations of the second
kind and nonlinear Volterra

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integral equations of the second kind. A two-dimensional Haar wavelet basis is used for this purpose. The algorithms are established theoretically alongside numerical validations.

~~New algorithms for the numerical~~

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~~solution of nonlinear ...~~
Volterra-Fredholm Integral

NUMERICAL SOLUTION OF
NONLINEAR

FREDHOLM-VOLTERRA INTEGRAL

47 and it is able to substitute the
above relation into Eq.(1.1) to
achieve AT $T(t) = f(x) + \lambda_1 \int_0^x \int_0^t k_1(x,t) F dt + \lambda_2 \int_0^1 \int_0^t k_2(x,t) F dt$

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$k^2(x,t)G(t,AT-T(t))dt. (3.1)$

Afterwards, one is able to change the intervals $[0,s_i]$ and $[0,1]$ into $[-1,1]$ by transformations $\tau_1 = 2s_i t - 1$, $\tau_2 = 2t - 1$,

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...

The Simpson's 3/8 rule is used to solve the nonlinear Volterra integral equations system. Using this rule the system is converted to a nonlinear block system and then by solving this nonlinear

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system we find approximate
solution of nonlinear Volterra
integral equations system.

~~Numerical Solution of Nonlinear
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We consider numerical solutions
of a class of nonlinear

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(nonstandard) Volterra integral equations. We first prove the existence and uniqueness of the solution of the Volterra integral equation in the context of the space of continuous functions over a closed interval.

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~~Numerical Solutions of a Class of
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Nonlinear Volterra ...~~

Numerical solution of nonlinear fuzzy Volterra integral equations of the second kind for changing sign kernels In this research, a numerical iterative method based on the trapezoidal quadrature

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rule to solve the nonlinear fuzzy
Volterra integral equations of the
second kind (NFVIEs-2) with
changing sign kernels is
proposed.

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