

Title:

**Some Comparisons of the Methods Applied to Solving the First-Order
Integro-Differential Equations**

Abstract:

There are some classes of the methods for solving the initial-value problem of the integro-differential equations of Volterra type. Obviously, each class of these methods has its advantages and disadvantages. Therefore, here we consider a comparison of some known methods by which the region of the application of the certain methods is determined. The results obtained here make it possible to choose an appropriate method for solving the initial-value problem of the Volterra integro-differential equation.