Application of Variational Iteration Method for *n*th-Order Integro-Differential Equations

Said Abbasbandy and Elyas Shivanian

Department of Mathematics, Imam Khomeini International University, Ghazvin, 34149-16818, Iran

Reprint requests to S. A.; Fax: +982813780040; E-mail: abbasbandy@yahoo.com or
E. S.; eshivanian@gmail.com

In this paper, the variational iteration method is proposed to solve Fredholm's *n*th-order integro-differential equations. The initial approximation is selected wisely which satisfies the initial conditions. The results reveal that this method is very effective and convenient in comparison with other methods.