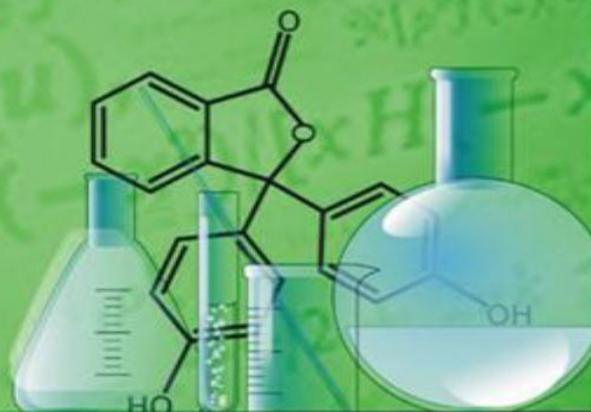
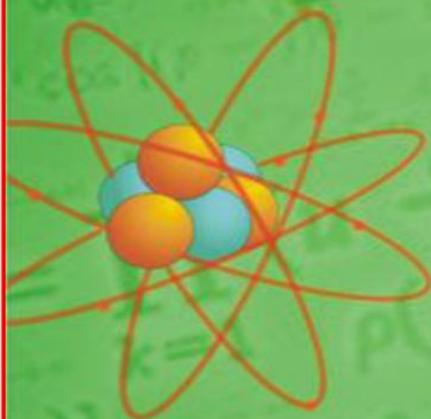


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	Paper Title:	Comparison of Haar Wavelet Collocation and Finite Element Methods for Solving the Typical Ordinary Differential Equations	
1.	<p>Abstract: In this paper, we developed an efficient Haar Wavelet Collocation Method (HWCM) for solving typical Ordinary Differential Equations (ODE). In particular, it is shown that the computed results of HWCM are superior to Finite Element Method (FEM) as compared with the exact solution. The present study is illustrated by exploring different kinds of Typical Ordinary Differential Equations that shows the pertinent features of the Haar wavelet collocation method.</p> <p>Keywords: Finite Element Method, Haar wavelet Collocation method, singular value Problems, Non-linear ODE</p> <p>References:</p> <ol style="list-style-type: none"> 1. Baker, A. J 1995 Finite Element Computational Fluid Mechanics, Student Edition, McGraw- Hill Book Company, New York. 2. Bathe, K. J 1982 Finite Procedures in Engineering Analysis, Prentice Hall, Englewood Cliffs, N. J. 3. Rao SS 1989 The Finite Element Methods in Engineering, Second Edition, Pergamum Press, New York. 4. Reddy J. N 1993 An Introduction to Finite Element Method, Second Edition, McGraw- Hill Book Company. 5. Segerlind LJ 1984 Applied Finite Element Analysis. Second Edition, John Wiley and Sons. 6. Zienkiewicz O. C and Taylor RL 2000 The Finite Element Method, Vol1, The Basis, Butterworth and Heinemann, London. 7. Lepik U, 2006. "Numerical solution of differential equations using Haar wavelets" Mathematics and Computers in simulation (Elsevier), 68, pp.127-143, 8. Lepik, U 2006. "Numerical Solution of evolution equations by the Haar wavelet Method," Applied Mathematics and Computation (Elsevier), 185, pp.695-704 9. Siraj-ul-Islam, Imran Aziz, Bozidar Sarlet 2010, The numerical solution of Second-order Boundary-value problems by collocation method with the Haar wavelets, Mathematical and Computer Modeling 52, pp 1577-1590. 10. Goswami, J. C, Chan, 1989. Fundamentals of Wavelets. Theory, Algorithms and applications, John Wiley and Sons. New York. 		1-11