





















- [20] B.P. Sommeijer, A note on a diagonally implicit Runge-Kutta-Nyström method, *J. Comp. Appl. Math.*, vol 19, 1987, pp. 395-399. *Transactions On Mathematics*, vol 4, no. 1, 2005, pp. 18-23
- [21] Hairer, S., Norsett, P. & Wanner, G.. Solving Ordinary Differential Equations I, Nonstiff Problems, 2nd ed. Berlin, Heidelberg, New-York: Springer-Verlag. 1993.
- [22] J. R. Dormand, M. E. A. El-Mikkawy and P. J. Prince, Families of Runge-Kutta- Nyström Formulae, *IMA J. Numer. Anal.*, vol.7, 1987, pp. 235-250.
- [23] Al-Khasawneh, R.A., Ismail, F., Suleiman, M. , Embedded diagonally implicit Runge-Kutta-Nyström 4(3) pair for solving special second-order IVPs . *Appl. Math. Comp.*, vol. 190, 2007, 1803-1814.
- [24] F. Ismail, N. I. Che Jawias, M. Suleiman and A. Jaafar, Singly Diagonally Implicit fifth order five-stage Runge-Kutta method for Linear Ordinary Differential Equations, *Proceedings of the 8th WSEAS International Conference on Applied Computer and Applied Computational Science*, ISSN: 1790-5117, 82-86.
- [25] N. Razali, R. Ahmad, M. Darus, A. Rambely, Fifth-Order Mean Runge-Kutta Methods Applied to the Lorenz System, *Proceedings of the 13th WSEAS International Conference on APPLIED MATHEMATICS (MATH'08)*, ISSN: 1790-2769, 333-338.
- [26] F. Ismail, N. I. Che Jawias, M. Suleiman and A. Jaafar, Solving Linear Ordinary Differential Equations using Singly Diagonally Implicit Runge-Kutta fifth order five-stage method, *WSEAS Transactions On Mathematics*, vol 8, No. 8, 2009, pp. 393-402.
- [27] J.R. Dormand, M.E.A. El-Mikkawy and P.J. Prince, Families of Runge-Kutta-Nyström Formulae, *IMA J. Numer. Anal.*, vol. 7, 1987, pp. 235-250.
- [28] M. Podisuk and S. Phummark, Newton-Cotes Formula in Runge-Kutta Method, *WSEAS*