

عنوان مقاله:

An efficient iterative method for solving large linear systems

محل انتشار:

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نویسندگان:

Ali Jamalian - Department of Computer Science, University of Guilan, Rasht, Iran

Hossein Aminikhah - Department of Applied Mathematics and Computer Science, University of Guilan, Rasht, Iran

خلاصه مقاله:

This paper presents a new powerful iterative method for solving large and sparse linear systems. Using the idea of the Jaya method to the restarted generalized minimum residual (GMRES) method, we propose Jaya-GMRES method. The Jaya-GMRES is an efficient solver, being based mainly on matrix-vector multiplications. Numerical results show that the Jaya-GMRES method has found more accurate solutions and converges much regular than the GMRES method.

کلمات کلیدی:

.GMRES method, Jaya optimization algorithm, Linear systems, Iterative method, Non-symmetric matrix

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