

عنوان مقاله:

Structure A Family Of Three-Step With-Memory Methods For Solving Nonlinear Equations And Their Dynamics

محل انتشار:

اولین کنفرانس ملی سیستم های هوشمند، محاسبات نرم و ریاضیات کاربردی (سال: 1401)

تعداد صفحات اصل مقاله: 6

نویسندگان:

.Vali Torkashvand - Department of Mathematics, Farhangian University, Tehran, Iran

.Manochehr Kazemi - Department of Mathematics, Ashtian Branch, Islamic Azad University, Ashtian, Iran

خلاصه مقاله:

In this paper, nonlinear equations are solved using the with memory methods. Then, by introducing the self accelerating parameter, a ۲۷% percent improvement in the convergence order have been obtained. The proposed method does not need to calculate the function derivative. Finally, numerical comparisons have been accomplished to show the proficiency of the proposed method. Also, the absorption and stability area of the proposed method has been given for different values of the self-accelerator parameter.

کلمات کلیدی:

Accelerator parameter, Nonlinear equations, R-order convergence, Simple roots, With-memory method

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1836247>

