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论文

一个求解非线性方程组的区间检验算法

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摘要:

关键词:

AN INTERVAL VERIFICATION ALGORITHM FOR THE SOLUTIONS OF NONLINEAR SYSTEMS

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Abstract:

In this paper an interval verification algorithm for the solutions of nonlinear systems is presented. The algorithm combines the high convergent speed of the floating-point iterative methods and the rigorous inclusion property of the interval methods. By using the so-called epsilon-inflation, the algorithm might be reliably used to solve various nonlinear systems, and the sufficiently rigorous error bounds of the solution could also be produced. Besides, a verification algorithm given by G. Mayer is also discussed. A Mayer's open question is answered negatively by constructing a simple counterexample, and a new conjecture about this algorithm is presented by the author.

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