

#### عنوان مقاله:

SOLVING FUZZY LINEAR SYSTEMS BY USING THE SCHUR COMPLEMENT WHEN COEFFICIENT MATRIX IS

AN M-MATRIX

## محل انتشار:

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#### خلاصه مقاله:

This paper analyzes a linear system of equations when the righthandside is a fuzzy vector and the coefficient matrix is a crisp M-matrix. Thefuzzy linear system (FLS) is converted to the equivalent crisp system withcoefficient matrix of dimension Yn × Yn. However, solving this crisp system is difficult for large n because of dimensionality problems. It is .{shown that this difficulty may be avoided by computing the inverse of an n×n matrix instead of Z^{-1}

# کلمات کلیدی:

Fuzzy linear system, Schur complement, M-matrix, H-matrix

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