

H matrices diagonally equipotent and Combined matrices

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Abstract

In this work, we study the combined matrix of a nonsingular matrix which is an H -matrix whose comparison matrix is singular, where $\mathcal{C}(A)$ is the combined matrix of an invertible matrix A . In particular, we focus on diagonally equipotent matrices. Related with these results we give some properties on the diagonal dominance of these matrices and on its comparison matrix.

Acknowledgements: Work supported by the Generalitat Valenciana grant CIAICO/2021/162.