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On Weighted Partial Orderings on the Set of Rectangular Complex Matrices

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Abstract: In this paper, the relations between the weighted partial orderings on the set of rectangular complex matrices are first studied. Then, using the matrix function defined by Yang and Li [H. Yang and H.Y. LI, Weighted **UDV***-decomposition and weighted spectral decomposition for rectangular matrices and their applications, Appl. Math. Comput. 198 (2008), pp. 150--162], some weighted partial orderings of matrices are compared with the orderings of their functions.



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