

Some algebraic properties of super line digraphs.

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Abstract

The interplay between graph theory and linear algebra has been very fruitful in the study of non-directed graphs. The main reason for this is that non-directed graphs have symmetric adjacency matrices, whose spectral properties are very well known. On the contrary, very little is known about algebraic properties of directed graphs, whose adjacency matrices are not necessarily symmetric. In this talk we will show some spectral properties of line digraphs and super line digraphs.