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A Multidirected Hypergraph Representation of Matrices with 0, 1, -1 Entries, Parts I and II

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A multi-directed hypergraph is a combinatorial representation of $\{0, +1, -1\}$ -matrices that extends the concepts of signed graphs to hypergraphic analogs. I will discuss their discovery and development from hypergraphic matrices and the problems in extending the signed-graphic treatment of the classification of column dependencies.

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