

1. Introduction

If A, B are matrices, then we say A contains a B configuration if some submatrix of A is the same as B up to row/column permutation. We let I_k be the identity matrix of order k . If M is a $(0, 1)$ -matrix, then we define the $(0, 1)$ -complement of M (written M') to be the $(0, 1)$ -matrix of the same size as M such that each entry disagrees with the corresponding entry in M .