Arrangement Graphs

Ebrahim Ghorbani
K.N.Toosi University of Technology and IPM
Tehran, Iran

Abstract

We study properties of the arrangement graph $A(n,k,r)$ which is a graph with all the $k$-permutations of an $n$-element set as vertices where two $k$-permutations are adjacent if they differ in exactly $r$ positions. This family of graphs include many interesting classes of graphs as special cases.