Seminar Notes

March 8, 2021

1 Definitions

Tournament - is a directed graph such that $\forall v, u \in V(T)$ only one of the two edges $(v, u), (u, v)$ is in $E(T)$

Hyperedge - is an edge with 2 or more vertices (e.g. $\{v_1, v_2, ..., v_n\}$)

Hypergraph - is a generalization of a graph where $\forall e \in E$ is a hyperedge

k-uniform hypergraph - is a hypergraph where $\forall e \in E$, $|e| = k$ (a graph is 2-uniform hypergraph)