

Twenty-third lecture

● MORE GRAPH THEORY

Leftovers:

Proof of Hall's marriage theorem

Transversals

Maximum matchings in bipartite graphs

Digraphs $D = (V, A)$

$A \subseteq (V \times V)$, the arcs

Networks

$D = (V, A)$ and $w : A \rightarrow \mathbb{N}$

$s, t \in V$

Activity networks

Critical path analysis

Flow networks

capacity $c : A \rightarrow \mathbb{N}$

cuts (S, T)

max-flow min-cut theorem