SF2736, Discrete mathematics, autumn 2015 Wed 9 December

Twenty-third lecture

• MORE GRAPH THEORY

Leftovers:

Proof of Hall's marriage theorem Transversals Maximum matchings in bipartite graphs

 $ext{Digraphs} \,\, D = (V, A) \ _{A \,\subseteq \, (V imes \, V), ext{ the arcs}}$

Networks

 $D=(V,A) ext{ and } w:A o \mathbb{N}$ $s,t \in V$

Activity networks

Critical path analysis

Flow networks

capacity $c: A \to \mathbb{N}$ cuts (S,T)max-flow min-cut theorem