

Network Programming (DM817) — Ugeseddel 8

Correction!! At the class on April 7 I think I gave an (obviopu-ly wrong) argument for the following: If D is a digraph which contains both a spanning k -regular subdigraph D' and a spanning $(k+1)$ -regular subdigraph D'' , then we can find a cycle factor \mathcal{F} of D'' which is arc-disjoint from D' . This is NOT true.

Let $D = (V, A)$, $V = \{1, 2, 3, 4, 5, 6\}$, $A = \{12, 13, 23, 26, 34, 35, 42, 46, 54, 51, 61, 64, 65\}$, $D' = (V, A')$, $A' = \{13, 35, 51, 26, 64, 42\}$, $D'' = D - \{64\}$. Then it is easy to check that if we delete $A' \cap A''$ from D'' then the resulting digraph has no cycle factor.

Classes in Week 14 We covered the following.

- Ahuja 9.11, 10.2
- The exercises on Weekly note 7 except Summer 1998 5B which we covered partly earlier and may return to later if there is time.

Final exam project The plan is now to hand that out on May 13. It should be handed in again on June 9.

Other classes cancelled There are no classes in week 16 and no class friday April 29.

Note that we will generally have exercises on wednesdays from now on

Problems for April 13, 2011:

- DM33 Summer 2000 5B
- DM33 Summer 97 opg 3 and 4
- Ahuja 9.53.

Lectures in Week 14

- Ahuja Chapter 14
- BJG 3.11
- Ahuja 16.1-16.3, 16.5