

# Errata

Tamás Király: Edge-connectivity of undirected and directed hypergraphs

This file lists some errors that were discovered after the submission of the thesis, and also some updates on bibliographical information. Minor spelling mistakes are not listed.

- p. 15, line -16: positive integers  $k, l \longrightarrow$  non-negative integers  $k, l$
- p. 16, line 9: positive integers  $k, l \longrightarrow$  non-negative integers  $k, l$
- p. 21, line -11:  $(D = V, \mathcal{A}) \longrightarrow D = (V, \mathcal{A})$
- p. 29, line 8:  $\cup_{j=i}^k \varphi^{-1}(W_i) \longrightarrow \cup_{j=i}^k \varphi^{-1}(W_j)$
- p. 30, eq. (2.1):  $b(X) + b(Y) \leq b(X \cap Y) + b(X \cup Y) \longrightarrow b(X) + b(Y) \geq b(X \cap Y) + b(X \cup Y)$
- p. 31, line -14: such that the values ...  $\longrightarrow$  such that ...
- p. 40, line 18:  $r(X) = r(Y) := \dots \longrightarrow r(Z) := 1 - \chi_{\mathcal{F}_{X \cap Y}}(Z) - \chi_{\mathcal{F}_{X \cup Y}}(Z)$  if  $Z = X$  or  $Z = Y$ .
- p. 42, eq. (2.23):  $c(a) \longrightarrow c(v)$
- p. 43, line -14:  $p_2^\uparrow(X)$  is correct only if we assume that  $p_2(V) = p_1(V)$
- p. 45, line -1: 2.10  $\longrightarrow$  (2.10)
- p. 57, line 15: a set  $X$  entered by  $e$  such that  $\longrightarrow$  a set  $X$  such that
- p. 57, line -11: (3.9)  $\longrightarrow$  (3.10)
- p. 65, line 11:  $r\gamma \longrightarrow \nu\gamma$
- p. 70, line 4:  $\mathbb{Z}^+ \longrightarrow \mathbb{Z}_+$
- p. 71, line 8: Theorem 4.5 or Theorem 3.14  $\longrightarrow$  Theorem 3.14
- p. 75, line 11: hyperedges  $\longrightarrow$  hyperarcs
- p. 86, Theorem 5.2: Actually the original proof of Lovász was not constructive. The algorithmic proof is contained in the doctoral thesis of András Frank.
- p. 89, line 13: edge  $\longrightarrow$  hyperedge
- p. 100, Theorem 6.8:  $\text{odd}(\mathcal{F})$  should be the number of members  $X \subseteq V - s$  for which  $|X \cap T| - i_G(X) - k$  is odd, plus 1 if  $|X \cap T| - i_G(X)$  is odd for the member  $X$  containing  $s$ .
- p. 124, Corollary 7.11:  $0 \leq \gamma \leq \sigma \longrightarrow 0 \leq \gamma \leq \sigma/2$

## Changes in the Bibliography:

- [5] J. Bang-Jensen, S. Thomassé, *Highly connected hypergraphs containing no two edge-disjoint spanning connected subhypergraphs*, Discrete Applied Mathematics 131 No. 2 (2003), 555–559.
- [34] Discrete Applied Mathematics 131 No. 2 (2003), 347–371.
- [35] Discrete Applied Mathematics 131 No. 2 (2003), 401–419.
- [36] Discrete Applied Mathematics 131 No. 2 (2003), 385–400.
- [37] Discrete Applied Mathematics 131 No. 2 (2003), 373–383.