

Errata for the book “Parameterized Algorithms” by Marek Cygan, Fedor V. Fomin, Łukasz Kowalik, Daniel Lokshtanov, Dániel Marx, Marcin Pilipczuk, Michał Pilipczuk, and Saket Saurabh

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- p. viii, line -2: “certain problem” should be “certain problems”
- p. 22, line 9 (i.e., line 2 of Reduction VC.3): “If $k < 0$ and G has more than...” should be “If $k < 0$ **or** G has more than...”
- p. 24, line -3: $k'^2 + k'$ should be $k'^2 + 2k'$
- p. 39, statement of Theorem 2.26: the proof shows only the bound of $d! \cdot k^d \cdot d$ on the number of sets
- p. 42, last line of Exercise 2.29: “function d ” should be “function f ”
- p. 76, Bibliographic notes: The discussion on “LP-guided branching” (fourth paragraph) should mention the work of Guillemot (Sylvain Guillemot, *FPT algorithms for path-transversal and cycle-transversal problems*. Discrete Optimization 8(1): 61-71 (2011)) where the first LP-guided branching algorithms were presented.
- p. 84, line 23: the definition $q = k + 1$ is missing here
- p. 84–85: in the literature, the “natural position” of v is often denoted $p(v)$, not $p[v]$ as in our book
- p. 92, line 24: “find a set S ” should be “find a set X ” and “ $G - S$ ” should be “ $G - X$ ”
- p. 96, hint to Exercise 4.5: in the last bullet, some people find it more intuitive to reduce to the problem of finding a matching of maximum weight in a weighted bipartite graph (instead of maximum matching of minimum cost)
- p. 110, line -3: $k/2^i$ should be $\ell/2^i$
- p. 156, formula (7.2): X_i should be X_j under the max operator
- p. 160, line -13: the treewidth of $K_{m,n}$ is $\min\{m, n\}$, not $\min\{m, n\} - 1$
- p. 184, line -13: “by bounded by” should be “be bounded by”
- p. 189, line 21: “A bramble is the” should be “A bramble is a”
- p. 194, line -3: $p < q$ should be $q < p$
- p. 200, line 20: “scope this book” should be “scope of this book”
- p. 256, Theorem 8.11: “in graph G ” should be “in a graph G ”
- p. 256, line -11: $2k - \lambda < 0$ should be $2k - \lambda < k$

- p. 426, line -1: “an equivalent instance of C ” should be “an equivalent instance (x'', k'') of C ”
- p. 430, caption of Figure 13.1: “connectes” should be “connects”
- p. 447, item (ii): $1 \leq j \leq i$ should be $1 \leq j \leq n$
- p. 450, line -14: “we many omit” should be “we may omit”
- p. 458, line 4: $e_{i,j}$ should be $w_{e_{i,j}}$ in the definition of the set S
- p. 469, line 5: “the q -SAT is” should be “the q -SAT problem is”
- p. 469, line 21: “infinimum” should be “infimum”
- p. 471, line 13: “providing” should be “provided”
- p. 537, line 11: “be an index” should be “be the index”