

**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**

We would like to thank the following people for reporting errors and typos in the book: Ignasi Sau, Yoshio Okamoto, Sahand Mozaffari, Sören Henning.

- 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. 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. 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”