

for the first edition of:  
**Methods for Computational Gene Prediction**

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**Found an error? Please report it!**

From the Preface: *“Though it is my hope that the number of typographical and/or factual errors in this text will be found to be small, I have greater hopes that readers of this first edition will send me their corrections so that they may be incorporated as appropriate into the next edition.” (MCGP, page xv)*

To submit an error report, visit:  
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Page numbers refer to the first edition. Sources for contributed corrections are cited in brackets.

**p1:** “primarily biochemical products” should read “primary biochemical products” [error found by the author]

**p10:** (Table 1.1) Codons `TTC` and `TTT` should not be listed under glutamic acid (amino acid code E) (error introduced by publisher during typesetting). Also, codon `TTG` is missing from the list for leucine (amino acid code L) (error introduced by author). [errors found by the author]

**p126:** The test `if orfsOverlap( $\omega_1, \omega_2$ )` in Algorithm 5.5 (also 5.7, 5.9, 5.12) should include an additional test for  $\omega_1 \neq \omega_2$ . [error found by Rob Patro]

**p130:** The entropy-based discussion of codon bias scores on this page and on p132 is, unfortunately, misleading, since the maximization is over the  $p_i$ 's rather than the  $q_i$ 's. Thus, while the codon bias score is indeed a negative cross entropy (as stated), it does not achieve its maximum when all  $p_i = q_i$ . This behavior can, however, be achieved by switching the  $p_i$ 's and  $q_i$ 's in the scoring function so as to achieve true cross-entropy minimization. [error found by author]

**p141:**  $P(\phi_{i,k}, S_{i..k})$  should be  $P(\phi_{i,k}, S_{0..k})$ . [error found by the author]

**p206:** the phrase “The dependency structure of such a graph is valid insofar as” should have a footnote attached to it which reads “This is generally only true of tree-structured networks. A more fully general characterization of the relationship between directed and undirected graphical models needs to take into consideration the notion of *d-separation*, which is beyond the scope of this book. See, e.g., (Pearl, 1991).” [error found by the author]

**p310:** labels “parent” and “child” in the matrix should be reversed (error introduced by publisher during typesetting). [error found by the author]

**p313:** “Davidson” should be spelled “Davidon” (similarly for the index entry on p411). Furthermore, the Powell method (which uses no gradients) and the Davidon-Fletcher-Powell method (which does use gradients) are distinct methods; PH03 appears to use the former, as originally stated. [error found by the author]

**p332:** “outside the subtree rooted at  $parent(i)$ , given the value of that parent attribute” should instead read: “outside the subtree rooted at  $X_i$ , given the value of  $parent(i)$ ”. [error found by the author]

**p384:**  $\theta$  should be  $\phi$  in Eq. 12.3 (error introduced by publisher during typesetting) [error found by the author]

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