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for the first edition of: Methods for Computational Gene Prediction

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)

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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]
- p55: The sentence regarding rejection regions and Type I errors is stated incorrectly. It should instead say: "If we set α =5%, then we can expect that of the true null hypotheses that we test, roughly 5% will be rejected, which would constitute Type I errors." Also, the word "assess" in the following sentence should instead say "control." [error found by the author]
- p126: The test if orfsoverlap (ω_1, ω_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]
- p**384**: θ should be ϕ in Eq. 12.3 (error introduced by publisher during typesetting) [error found by the author]