

Errata: Schalkoff- Pattern Recognition (1st Edition)

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1. Page 12. Caption for Table 1.2 should read: 'Moment-Based Features ϕ_i for R_j , $i = 1, 2, \dots, 7; \dots$ '.
2. Page 24. Figure 14. Second and third elements of vector $\underline{x}_2$ should be reversed.
3. Page 38. Equation (2-2) missing second term; should read: $p(\underline{x}) = \sum_i p(\underline{x}|w_i)P(w_i)$.
4. Page 42. (2-16) should read: $g_i(\underline{x}) = -\|\underline{x} - \underline{\mu}_i\|_{\Sigma^{-1}}^2$. Also, (2-20b) should read: $w_{i0} = +\frac{1}{2}\|\underline{\mu}_i\|_{\Sigma^{-1}}^2$
5. Page 43. First line should refer to Example 5, not Example 4.
6. Page 46. Under "Discriminant Functions". Leave out transpose on row vectors.
7. Page 55. Problem 2.7. pdfs should be shown in lowercase, i.e., $p(\underline{x}|w_1)$, **not** $P(\underline{x}|w_1)$.
8. Page 56. Problem 2.12. Should read: '... with mean $\mu_2 = 2$ and ...'. Also, part (e) should read: 'Repeat parts **(b) and (d)** for $P(w_1) = 2P(w_2)$ '.
9. Page 64. Figure 3, part (b). y-axis labels should be lowercase functions, i.e., densities $p(\mu_i)$ and $p(x|\mu_i)$.
10. Page 65. (*Optional*). First line could read: '... where $\theta_i = \mu$ in this example.'
11. Page 69. (*Optional*). Second to last line could read: 'The 'shape' of R_n ...' (not V_n).
12. Page 76. Figure 7 (all parts). y-axis is scaled by $\frac{1}{\sqrt{2\pi}}$.
13. Page 82. Replace "theapproach" with "the approach".
14. Page 92. Figure 2. Subscripts on $\bar{m}$ should have uppercase Y, e.g., $\bar{m}_{Y_1}$.
15. Page 93. Eqn (4-9e). Put underbar under $\hat{w}$.
16. Page 99. Second line: Replace xj with x_j .
17. Page 100. Eqn. (4-47a). Change w_o to $-w_o$.
18. Page 101. Line under (4-56) refers to Appendices 1 and 4 (not 2 and 4).
19. Page 104. Figure 5. Plane parameter vectors are $\underline{w}(0)$ and $\underline{w}(30)$, not $\underline{w}_0$ and $\underline{w}_{30}$. Also replace "separating plans" with "Seperating planes".
20. Page 120. (*Optional*). J_e is the same as J_{SSE} .
21. Page 135. Equation (6-9b). Insert "and" so reads: "... where $s_1 \in L_1$ **and** $s_2 \in L_2$ ".
22. Page 144. In (6-36c) $Top \rightarrow t * b$.
23. Page 162. Figure 4 captions. Replace (2-4a) and (2-4c) with (7-4a). Also, separate nonterminals in parts (b)(i) and (b)(ii) with commas.
24. Page 177. Figure 1, part (e). Add 2nd block on second (rightmost) stack.
25. Page 180. Change first #2. under 'Invariants under Graph Isomorphism' from 'number of vertices' to 'number of arcs'. Also change in Prob. 8.10, p.193.

26. Page 188, (8-15). Replace character 'b' in subscripts with 'e'.
27. Page 189. Second line: replace diamond symbol with square.
28. Page 192. Problem 8.5. Change superscripts to subscripts.
29. Page 200. Footnote (6). Replace "5" with "it".
30. Page 209. (*Optional*). Figure 1, part (b). Unit in 'middle' has no output (not necessary).
31. Page 250. Last part of last equation: change $0.0853i_i$ to $0.010i_i^p$.
32. Page 272. Last energy value of fourth equation on page should be 0, not -1 .
33. Page 268. (13-8) This quantity is actually $2*HD$.
34. Page 274. Figure 2. Compositor left out last part of Figure. (See Figure 1 below).

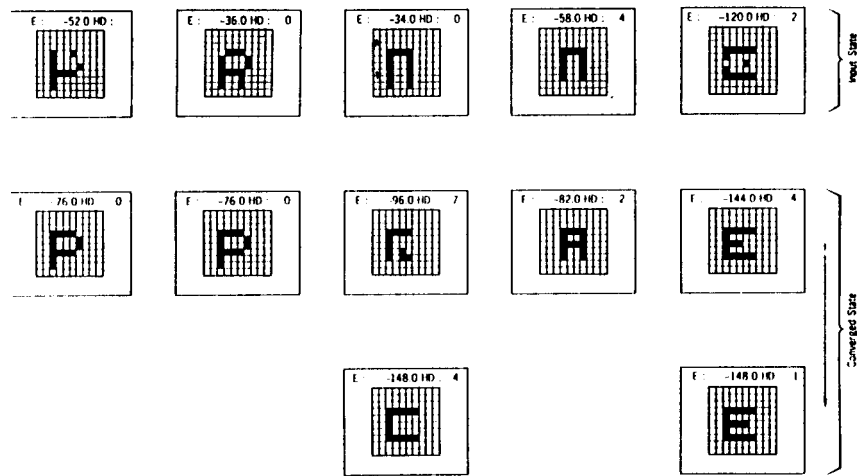


Figure 1: Complete Figure for Page 274

35. Page 285, Figure 9, part (b). Character in row 6, under 'HKL' is 'I', not '1'.
36. Page 290. Eqn. (A.1-4). Change last $\underline{x}$ in eqn. to $\underline{x}_o$.
37. Page 306. Second equation on page has misplaced parens, second term in righthand side should be $\exp[-\frac{1}{2}((x - \mu)/\sigma)^2]$.
38. Page 307. (A.2-37) should read: $A^{-1} = A^T$.