Sixth printing

Chapter 2

page 22 Eq. 5: Change "$P(error, x)$" to "$p(error, x)$"

page 27 *line -1* above Sect. 2.3.1: Change "gets smaller, as it should." to "gets larger, as it should." [Figure 2.3 is altered to have $\theta_b < \theta_a$.]

page 47 Equation 75: The $\boldsymbol{\Sigma}_1$ and $\boldsymbol{\Sigma}_2$ are interchanged. (This error also appears in Keinosuke Fukunaga, **Introduction to Statistical Pattern Recognition** (2nd ed.) Academic Press 1990, Eq. 3.150, page 98.) Equation 75 should read:

$$\begin{aligned} k(\beta) &= \frac{\beta(1-\beta)}{2}(\boldsymbol{\mu}_1 - \boldsymbol{\mu}_2)^t \left[(1-\beta)\boldsymbol{\Sigma}_1 + \beta\boldsymbol{\Sigma}_2\right]^{-1} (\boldsymbol{\mu}_1 - \boldsymbol{\mu}_2) \\ &\quad + \frac{1}{2}\ln\frac{(1-\beta)\boldsymbol{\Sigma}_1 + \beta\boldsymbol{\Sigma}_2}{|\boldsymbol{\Sigma}_1|^{1-\beta}|\boldsymbol{\Sigma}_2|^{\beta}}. \end{aligned}$$

page 61 *line +4* after Eq. 101: Change "0.27" to "0.37"

page 71 Problem **20**, part (c), *line +2*: Change "standard deviation σ^2" to "standard deviation σ"

page 71 Problem **21**, *line +2*: Change "standard deviation σ^2" to "standard deviation σ"

Chapter 3

page 104 Eq. 62: Change "$= \frac{P(\mathcal{D}|\mathbf{s},\boldsymbol{\theta})}{\sum\limits_{\mathcal{D}\in\bar{\mathcal{D}}} P(\mathcal{D}|\mathbf{s},\boldsymbol{\theta})}$" to "$= \frac{P(\mathcal{D},\mathbf{s}|\boldsymbol{\theta})}{\sum\limits_{\mathcal{D}\in\bar{\mathcal{D}}} P(\mathcal{D},\mathbf{s}|\boldsymbol{\theta})}$"

page 107 First unnumbered equation: Change "$\mathbf{c}(\mathbf{x})$" to "$\mathbf{c}(\mathbf{x}_k)$"

page 138 Algorithm 5, *line 5*: Change "$\hat{a}_{ij}(z-1)$" to "$\hat{a}_{ij}(z)$"

page 138 Algorithm 5, *line 6*: Change "$\hat{b}_{ij}(z-1)$" to "$\hat{b}_{ij}(z)$"

Chapter 5

page 218 Figure 5.3, bottom sub-figure: The pink "ambiguous" region should not include the three small triangles $\Delta H_{14}H_{23}H_{24}$, $\Delta H_{24}H_{13}H_{34}$, $\Delta H_{34}H_{12}H_{23}$ nor the quadralateral $\Box H_{14}H_{34}H_{24}H_{12}$.

Chapter 8

page 416 Algoritm 2, lines 9–12: These lines are indented too far to the right. They should be moved the same distance to the left so the **<u>if</u>** of line 9 is directly under the **<u>while</u>** of line 7, and lines 10–12 are indented slightly farther to the right.

Chapter 9

page 507 Problem **39** part **2**, last line: Change "full circle" to "full circular disk"

Chapter 10

page 541 two lines after Eq. 52: Change "Tanimoto coefficient or *Tanimoto distance*" to "Jaccard coefficient or *Jaccard distance*"

page 541 In margin: Change "TANIMOTO DISTANCE" to "JACCARD DISTANCE"

page 545 *line -6*: Change "Furthermore, $\mathbf{S}_B$" to "Furthermore, $\mathbf{S}_W$"

Appendix

page 624 Equation 98: Change "$n\Gamma(n-1)$"to "$(n-1)\Gamma(n-1)$"

Index

page 645 column 2, insert an entry for: "Jaccard coefficient, 541"

page 648 column 1, entry for metric, Tanimoto: delete reference to page "541"