

Matrix Methods in Data Mining and Pattern Recognition

ERRATA

Lars Eldén

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I am indebted to Bo Einarsson, Berkant Savas, and David Huckaby for reporting typos. There are also some missing words and similar errors that do not obscure the contents. They will be corrected in the second printing of the book.

Chapter 3

1. **Page 34, Example 3.11.** Should read: We can now solve the example given at the beginning of Section 3.6.

The matrix and the right hand side should be as on p. 31.

Chapter 5

1. **Page 53, Theorem 5.5.** The last two lines of the theorem should read

$$\|\Delta A\|_F \leq c_1 mn\mu \|A\|_F + O(\mu^2), \quad \|\delta b\|_2 \leq c_2 mn\mu \|b\| + O(\mu^2),$$

and c_1 and c_2 are small integers.

Chapter 12

1. **Page 149, line 2:** N_j should be $1/N_j$.
2. **Page 153, Theorem 12.9.** The vector v in the proof should be replaced by $\frac{1}{n}e$.

The theorem is also valid in the case when $A = \alpha P + (1 - \alpha)ve^T$, where v is a vector with nonnegative elements satisfying $v^T e = 1$.

Chapter 13

1. **Page 166, line 6:** κ should be κ_1 .

Chapter 15

1. **Page 198, second displayed equation:** There is a superfluous \times in the (3,5) position.