

Inverse Problem Theory - A. Tarantola - Siam 2005

List of Errata

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page 14

Equation (1.41) and the equation in the following line are incorrect (the final f_2 should be f_n [in the two equations]), and a factor $\mu(\mathbf{x})$ is missing). It should be as follows:

The conjunction operation is naturally associative, and one has

$$\frac{(f_1 \wedge f_2 \wedge \dots \wedge f_n)(\mathbf{x})}{\mu(\mathbf{x})} = \frac{1}{\nu} \frac{f_1(\mathbf{x})}{\mu(\mathbf{x})} \frac{f_2(\mathbf{x})}{\mu(\mathbf{x})} \dots \frac{f_n(\mathbf{x})}{\mu(\mathbf{x})}, \quad (1.41)$$

where $\nu = \int_{\mathbf{x}} d\mathbf{x} \mu(\mathbf{x}) \frac{f_1(\mathbf{x})}{\mu(\mathbf{x})} \frac{f_2(\mathbf{x})}{\mu(\mathbf{x})} \dots \frac{f_n(\mathbf{x})}{\mu(\mathbf{x})}$.

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In the Definition in the middle of the page, the sentence “The conjunction of P and M_A , i.e.,...” should be “The conjunction of P and M_B , i.e.,...”.

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In line 8, “Introducing the conditional probability distribution $P(\mathcal{A}|\mathcal{B})$...” should be “Introducing the conditional probability distribution $P(\mathcal{B}|\mathcal{A})$...”.

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The axis at the left of figure 1.8 should be labeled in g/cm^3 , not g/cm .

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Between equations (3.23) and (3.24): “ $\dots = \langle \mathbf{G}^t \mathbf{C}_D^{-1} \mathbf{d}, \mathbf{m} \rangle_D = \dots$ ” should be “ $\dots = \langle \mathbf{G}^t \mathbf{C}_D^{-1} \mathbf{d}, \mathbf{m} \rangle_M = \dots$ ”.

After equation (3.24): suppress “incorrectly”.

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Between equations (3.40) and (3.41): “(second of equations (3.38))” should be “(first of equations (3.38))”.

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Equation (3.90): “ $(dS^2/d\mathbf{m}^2)$ ” should be “ $(d^2S/d\mathbf{m}^2)$ ”.

page 165

After equation (6.15): “where $c^{ij}_{k\ell}$ is the tensor...” should be “where $s^{ij}_{k\ell}$ is the tensor...”.

page 167

Equation

$$g(\sigma) = \frac{3}{Y(1+\sigma)(1-2\sigma)} \quad (6.27)$$

should be

$$g(\sigma) = \frac{3}{(1+\sigma)(1-2\sigma)} \quad (6.27)$$