

Errata

Version: June 2, 2015.

A. H. Sayed, *Adaptation, Learning, and Optimization over Networks*, Foundations and Trends in Machine Learning, volume 7, issue 4-5, NOW Publishers, Boston-Delft, 518pp, 2014.

Remark. *The typos are already marked in red in the manuscript's pdf file.*

1. Expressions (2.55) and (2.56): the running index for the summations and the arguments of $\mu(i)$ and $\mu^2(i)$ should be i' instead of i .
2. Expression (4.148): ρw^o is missing on the right-hand side.
3. Expression (4.149): $-\rho^2 w^o (w^o)^\top$ is missing on the right-hand side.
4. Expression (5.102): replace rightmost ∞ by 0 (similar to (3.91)).
5. Figure 7.4: replace $\{\mathbf{w}_{4,i-1}, \mathbf{w}_{7,i-1}, \mathbf{w}_{\ell,i-1}\}$ by $\{\boldsymbol{\psi}_{4,i}, \boldsymbol{\psi}_{7,i}, \boldsymbol{\psi}_{\ell,i}\}$.
6. Expressions (9.307) and (10.116): replace second " \leq " by " $=$ ".
7. Expression (11.20): symbol \mathbb{E} missing before first $\mathbf{s}_{k,i}^e$ on first line.
8. Rephrase sentence right after (11.111) as: "Selecting the origin of time at some large time and iterating from there"
9. Expression (11.130), second line, second symbol \otimes should be \otimes_b .
10. Expression (11.131), first two lines, second symbol \otimes should be \otimes_b .
11. Fourth line below expression (14.3): replace "add up to one" by "add up to zero".
12. Expression (13.47): $(2 + N_I)$ should be $(2 + N_I^{-1})$.
13. Expression (14.38): replace \mathbf{w} by $\tilde{\mathbf{w}}$ on the right-hand side.
14. Expression (14.39): first equality, replace $\mathbf{s}_{e,i}$ by $\mathbf{s}_{\ell,i}^e$.
15. Expression (14.47): replace $\hat{\zeta}_k$ by $\hat{\zeta}_\ell$.
16. Sentence after (E.32), replace the word "Hermitian" by "symmetric."