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Errata for and remarks on the book

Basic Phylogenetic Combinatorics

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Errata

1. **page 8, line 8:**

   $E_T(u|v) \cap E_v$

   should be

   $E_T(u|v) \cap E(v)$

2. **page 27, line 2:**

   $y, z \in \varphi^{-1}(a_i)$

   should be

   $y, z \in \varphi_i^{-1}(a_i)$

3. **page 44, line 16:**

   $ac|db \in \mathcal{Q} \iff c \prec_{a,b} d$

   should be

   $ac|db \in \mathcal{Q}$ and $ad|bc \notin \mathcal{Q} \iff c \prec_{a,b} d$

4. **page 45, line 18:**

   in view of Lemma 3.7

   should be

   in view of Lemma 3.6

5. **page 64, line 3:**

   $med(\psi, \phi_1, \phi_2)(S) = \phi_\Phi(S)$

   should be

   $med(\psi, \phi_1, \phi_2)(S) = \psi_\Phi(S)$

6. **page 79, line 24:**

   $$\Delta + \max \left\{ \begin{array}{l} \sup \big(D(x,u) + D(y,v) - f_1(x) - g_1(u) - f_2(y) - g_2(v) \big) \\ \sup \big(D(x,u) + D(y,v) - f_1(x) - g_2(v) - f_2(y) - g_1(u) \big) \end{array} \right\}$$

   should be

   $$\Delta + \max \left\{ \begin{array}{l} \sup \big(D(x,v) + D(y,u) - f_1(x) - g_1(u) - f_2(y) - g_2(v) \big) \\ \sup \big(D(x,u) + D(y,v) - f_1(x) - g_2(v) - f_2(y) - g_1(u) \big) \end{array} \right\}$$

7. **page 80, line 17:**

   D is treelike

   should be

   D is treelike and $f \in T(D)$ holds

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8. **page 88, line 12:**

   D is treelike
   > should be
   D is treelike and $f \in T(D)$ holds

9. **page 88, line 14:**

   D is treelike
   > should be
   D is treelike and $f \in T(D)$ holds

10. **page 197, line 17:**

    $med_{\mathcal{T}}(x, y, \mathfrak{r}_{\mathcal{T}})$
    > should be
    $med_{\mathcal{T}}(\varphi(x), \varphi(y), \mathfrak{r}_{\mathcal{T}})$

11. **page 200, line 11:**

    $\{C \in \mathcal{C} : C_1 \supseteq C \supseteq C_1\}$
    > should be
    $\{C \in \mathcal{C} : C_1 \supseteq C \supseteq C_2\}$

Remarks

1. The symbol $\mathbb{N}$ denotes the set of natural numbers *including* 0. To emphasize the latter, we occasionally use $\mathbb{N}_{\geq 0}$.

2. **page 45, Theorem 3.7:**

   For any quartet system $\mathcal{Q}$, if $\mathcal{Q}$ is thin and saturated then this implies that $\mathcal{Q}$ is transitive.

Acknowledgments

We would like to thank Yaokun Wu for his contributions to the lists above.