Errata : Algebraic Combinatorics on Words

This document contains errata for the book Algebraic Combinatorics on Words. Page and line numbers refer to the printed version. Please report errors to the author of the chapter or to one of the editors.

Contents

Finite and Infinite Words

page 35, line -10
> replace the end of the last sentence by "to a vertex in X if and only if $A^*X \cap A^n \neq \emptyset$".

Sturmian Words

page 56, eq. (2.1.7)
> replace $\ldots < 1 + \rho + v_n$ by $\ldots < 1 + \beta + v_n$. (Kwon, Doyong)

page 56, line 7
> replace $(x + y, x)$ by $(x + y, y)$. (Kwon, Doyong)

page 57, line 8
> replace $R^{n+i}(\rho)$ by $R^{n+k}(\rho)$ and replace $R^{-i}(I_{b_i})$ by $R^{-k}(I_{b_i})$. (Kwon, Doyong)

page 61, last paragraph of the proof of Proposition 2.1.18
> It should read: "...We may suppose that $\beta < \alpha$. For any factor u of s such that $(\alpha - \beta) \geq 2/|u|$, one has $\pi(u) - \alpha > -1/|u|$ by Proposition 2.1.10 whence $\pi(u) - \beta = (\pi(u) - \alpha) + (\alpha - \beta) \geq 1/|u|$ showing that ...". (K. Saari, Kwon, Doyong)

page 67, line -13

Replace "if follows" by "it follows". (*Kwon, Doyong*)

page 72, line 4

Replace $(x, y), (x', y')$ by $(y, x), (y', x')$. (*Kwon, Doyong*)

page 79, line 10

w^d is a *left* special factor. (*C. Reutenauer*)

page 83, line 3

$\mu() = \frac{1}{N} \cdots$. (*C. Reutenauer*)

page 92, lines 14–15

Replace φ by G and $\tilde{\varphi}$ by $\tilde{G}$ (twice each). (*C. Reutenauer*)

page 99, line 1

Replace "only $1 - \alpha$" by "only if $1 - \alpha$". (*Kwon, Doyong*)

page 102, line 3, (Exercise 2.1.1)

Replace "the only two-sided" by "the only non-Sturmian two-sided". (*D. Perrin*)

page 108, line -16

. . . the infinite word $01^{k_0}01^{k_1}01^{k_2}\cdots$. (*C. Reutenauer*)

Numeration Systems

page 243, line 5

Replace $f_{F(Y^*)}$ by f_{Y^*}. (*Kwon, Doyong*)

page 251, lines 23–24

Remove the first sentence. (*G. Skordev*)

References

page 491

The correct subtitle of Morse and Hedlund (1940) is : II. Sturmian trajectories, and the volume is **62**. (*C. Reutenauer*)