

Correction to “Complexity of Ideals in Finite Semigroups and Finite-State Machines”*

By

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We should like to make the following corrections to our earlier paper.*

In Definition 1(c) of Section 2, p. 62, replace “ $YI_1 \subseteq I_2$ ” by “ $YI_1 \subseteq I_1$ ”.

In the last line of Proposition 2 of Section 3, p. 65, replace “and V_i an ideal of V_{i+1} ” by “and V_i a subideal of V_{i+1} ”.

In the formula for $REP(T)$ near the top of page 63 replace “ $REP(T) = h_3(G^{rf} + G^{rf} \times \dots$ ” by “ $REP(T) = h_3(G^{rf} \times G^{rf} \times \dots$ ”.

On line 13 of page 63 replace “ $G \times ((AA \times B) \cup \{0\}) \dots$ ” by “ $G \times ((A \times B) \cup \{0\}) \dots$ ”.

In the displayed formula defining h_1 on page 63 replace “ u ” by “ c ” everywhere to the right of the bracket.

In the displayed formula defining h_2 on page 63 replace “if $z = d$ or $z = e$ or $x = 0$ ” by “if $z = d$ or $x = 0$ ”, and also replace “if $z = u$ and $x = (a, b)$ ” by “otherwise”.

Replace the displayed formula defining h_3 on page 63 by

$$h_3(g_1, g_2, x, y) = \begin{cases} (C(b, a_1))^{-1} g_1^{-1} g_2, a_1, b_1) & \text{if } x = (a_1, b), y = b, \\ & \text{and } C(b, a_1) \neq 0 \\ (g_2, a_1, b_1) & \text{if } x = (a_1, b_1) \text{ and } y = I \\ (g_1^{-1} g_2, a_1, b_1) & \text{if } x = (a_1, b_1), y = b \text{ and } C(b, a_1) = 0 \\ (g_1^{-1} g_2, a_1, b_1) & \text{if } x = (a_1, b_1) \text{ and } y = 0 \\ 0 & \text{otherwise, i.e., } x = c. \end{cases}$$

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