

Errata in “Analytic Machines”

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We correct some minor errors concerning the definitions of δ -Q-machine and robustness.

Page 11 In definition 2, part (2), it should read: The instruction at address N is *init*; which assigns 0 to α and γ and 1 to β .

Page 11 In definition 2, part (3), it should read: We define

$$K_b := \{k \mid \alpha = \gamma = 0, \beta = 1, \delta \in \mathbb{N}, x_0 \in \mathbb{N}, x_j = 0 \text{ for } j > x_0\}.$$

The difference between K_a and K_b is that δ can contain a number greater than 0 and the main memory need not be empty in K_b .

Page 11 The explanation should be cancelled.

Page 12 In definition 6 it should read: A program for a δ -Q-machine is called *robust* iff it computes the same function regardless of how the rounding is done. This means that although $|x - [x]_\delta| < 2^{-\delta}$ must hold, $[x]_\delta$ need not be computed by a function of any kind *in the robust case*.