I. ERRATA

Example 1:

The Timed Event Graph in figure (1) illustrates the input/output model.
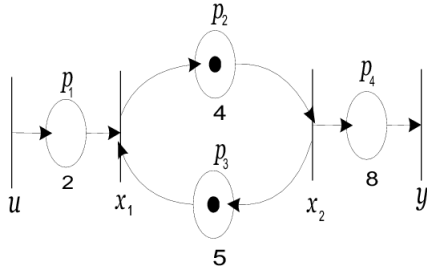

Fig. 1.   Timed Event Graph

$P = P_{u \to x} \cup P_{x \to x} \cup P_{x \to y}$ where $P_{u \to x} = \{p_1\}$, $P_{x \to x} = \{p_2, p_3\}$ and $P_{x \to y} = \{p_4\}$.

$TR = TR_u \cup TR_x \cup TR_y$ where $TR_u = \{u\}$, $TR_x = \{x_1, x_2\}$ and $TR_y = \{y\}$.

For an initial marking M_0 equal to $(0, 1, 1, 0)^t$, the input/output model is as follows. With state $x(k) = \begin{pmatrix} x_1(k) \\ x_2(k) \end{pmatrix}$,

$W_{x \to x}^+ = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$, $W_{x \to x}^- = \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$ and $T_{x \to x} = \begin{pmatrix} 4 \\ 5 \end{pmatrix}$,

$W_{u \to x}^+ = 1$, $W_{u \to x}^- = \begin{pmatrix} 1 & 0 \end{pmatrix}$ and $T_{u \to x} = 2$,

$W_{x \to y}^+ = \begin{pmatrix} 0 & 1 \end{pmatrix}$, $W_{x \to y}^- = 1$ and $T_{x \to y} = 8$. ∎