

Processes

one-sided two-sided

$$\mathbb{N} \to \mathbf{A}$$

$$\mathbb{Z} \to \mathbf{A}$$

Moore machines (Moo)
$$\mathbb{N} \to A$$
 $\mathbb{Z} \to A$
$$\begin{cases} dyn: U \to End(X) \\ ro: X \to Y \end{cases}$$

More machines (**Mor**)

$$\mathbf{A}^* \qquad \mathbf{A}^* \qquad \begin{cases} \operatorname{dyn} : \mathbf{U}^* \to \mathbf{End}(\mathbf{X}) \\ \operatorname{ro} : \mathbf{X} \to \mathbf{Y}^* \end{cases}$$

$$(\mathbb{N} \times \mathbf{A})$$

$$(\mathbb{N} \times \mathbf{A})$$

event-based (EB)
$$(\mathbb{N} \times A)^*$$
 $(\mathbb{N} \times A)^*$ $\left\{ dyn : (\mathbb{N} \times U)^* \to End(X) \right\}$ $\left\{ ro : X \to (\mathbb{N} \times Y)^* \right\}$

continuous (**DS**)
$$\mathbb{R}_{\geq 0} \to \mathbf{A}$$
 $\mathbb{R} \to \mathbf{A}$
$$\begin{cases} dyn: \mathbf{U} \to \mathbf{VF}(\mathbf{X}) \\ ro: \mathbf{X} \to \mathbf{Y} \end{cases}$$

$$\mathbb{R} \to \mathbf{A}$$

$$\mathbf{v} : \mathbf{X} \to \mathbf{Y}$$