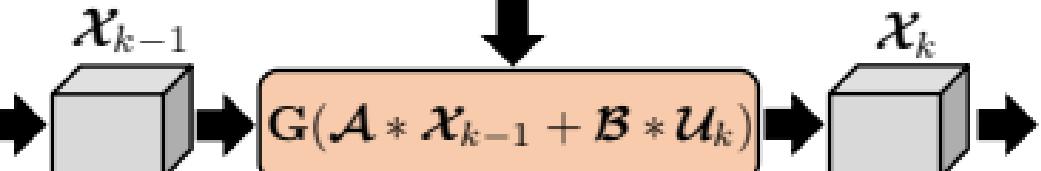


$$\mathcal{U}_{1:L} \in \mathbb{R}^{L \times H' \times W' \times U}$$

$$\mathcal{U}_k$$



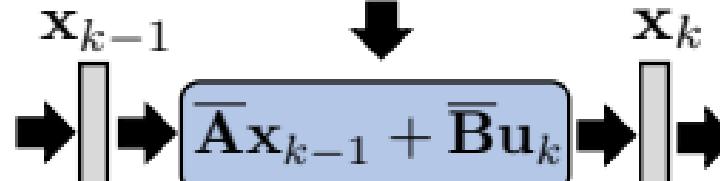
$$h(\mathcal{X}_k)$$

$$\mathcal{U}'_k$$

**ConvRNN**

$$\mathbf{u}_{1:L} \in \mathbb{R}^{L \times U}$$

$$\mathbf{u}_k$$



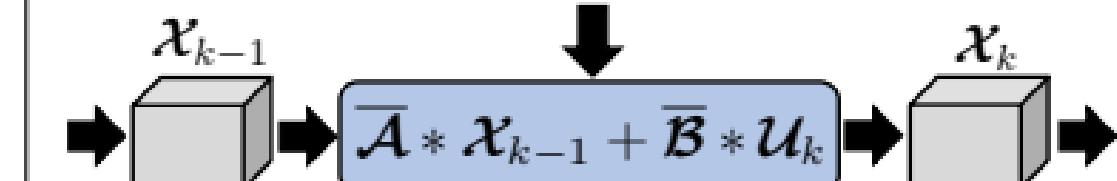
$$h(\mathbf{x}_k)$$

$$\mathbf{u}'_k$$

**SSM**

$$\mathcal{U}_{1:L} \in \mathbb{R}^{L \times H' \times W' \times U}$$

$$\mathcal{U}_k$$



$$h(\mathcal{X}_k)$$

$$\mathcal{U}'_k$$

**ConvSSM (this paper)**