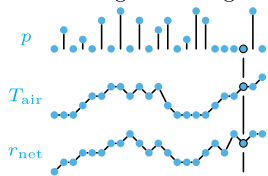
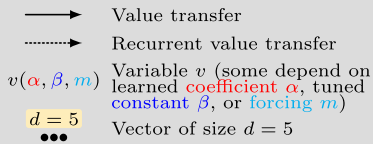


### (a) Input data

Meteorological forcings



$\mathbf{x}_{met,t}$   $d=3$



Static var. (dim. red.)

$d=30$

$\rho$

### (b) Neural network

Water storages

$\mathbf{x}_{stor,t-1}$  **SCG**  $d=3$

LSTM states  $\mathbf{h}_{t-1}$   $d=100$

FCNN<sup>1</sup>  $d=12$   $\rho_{enc}$   $d=18$   $\mathbf{x}_t$

Coefficients  $\alpha_t$   $d=5$

FCNN<sup>2</sup>  $d=100$  LSTM states  $\mathbf{h}_t$

### (c) Hydrological model

