

## ESEMPIO PER CASA (LEZIONE 3)

SIGNAL:  $[0 \ 0 \ 0 \ 1 \ 0 \ 0 \ 0]$ FILTER<sub>1</sub>:  $\left[ \frac{1}{3} \ \frac{1}{3} \ \frac{1}{3} \right]$ FILTER<sub>2</sub>:  $[-1 \ 0 \ 1]$ SIGNAL FOR ZERZO PUNTO:  $\begin{array}{cccccccccc} 0 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \end{array}$ FILTER<sub>1</sub>:  $\left[ \frac{1}{3} \ \frac{1}{3} \ \frac{1}{3} \right]$ \* CONVOLUT<sub>1</sub>:  $\begin{array}{ccccccc} 0 & 0 & \frac{1}{3} & \frac{1}{3} & \frac{1}{3} & 0 & 0 \end{array}$ FILTER<sub>2</sub>:  $\begin{array}{ccc} -1 & 0 & 1 \end{array}$ \* CONVOLUT<sub>2</sub>:  $\begin{array}{ccccccc} 0 & 0 & 1 & 0 & -1 & 0 & 0 \end{array}$ 