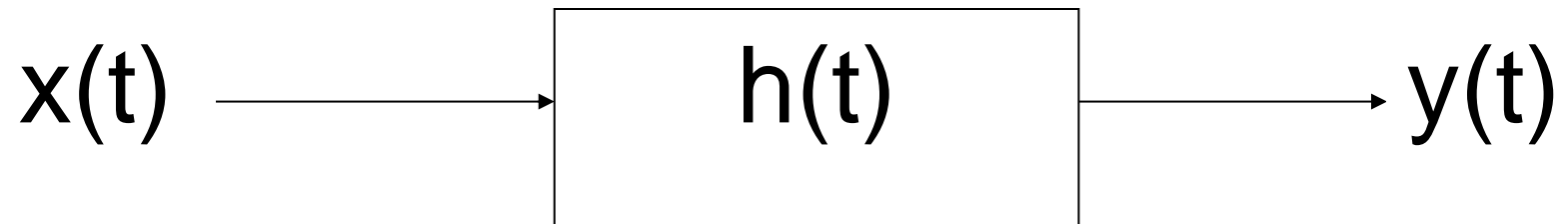


FIR: Finite Impulse Response



$$y(t) = x(t) \otimes h(t) = \int_0^{\infty} h(t)x(t - \tau)d\tau$$

Il simbolo \otimes rappresenta l'operatore di convoluzione.

Algoritmo

```
for (i = 0; i < len (wout); i++)
{
    wout [i] = 0;
    for (j = 0; j < len (wir); j++)
    {
        if (i - j >= 0 && i - j < len (win))
        {
            wout [i] += win [i - j] * wir [j];
        }
    }
}
```

ATTENZIONE ALL'OVERFLOW !!!