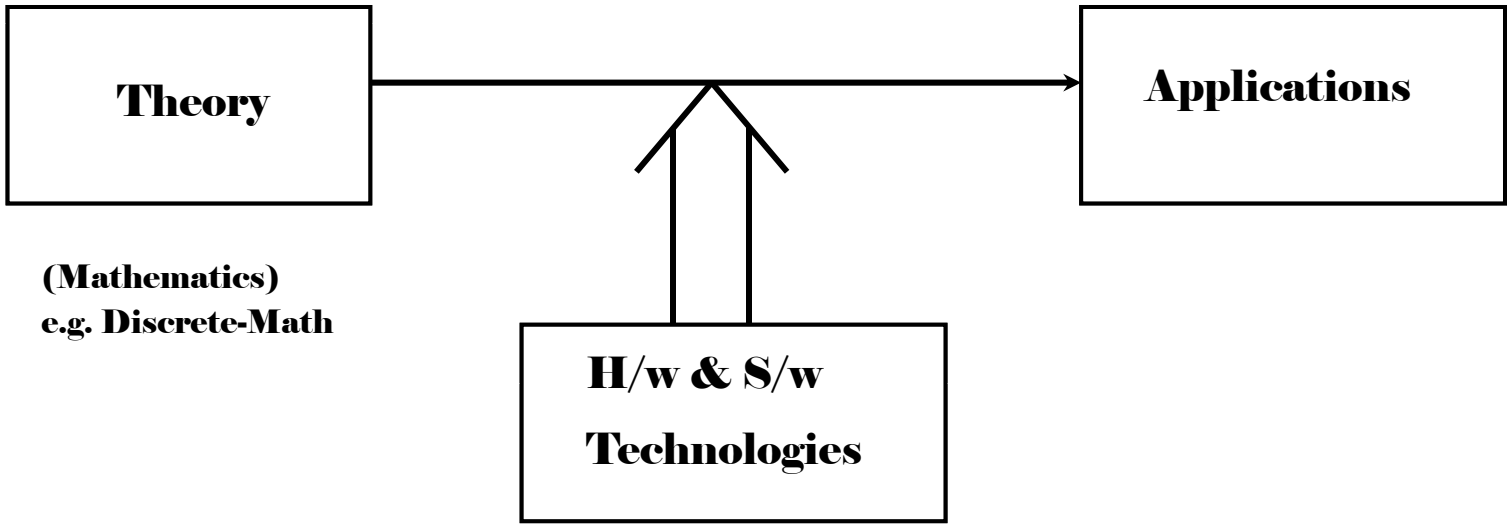
Theory
Applications
(Mathematics)
e.g. Discrete-Math
H/w & S/w
Technologies

Figure 1.1

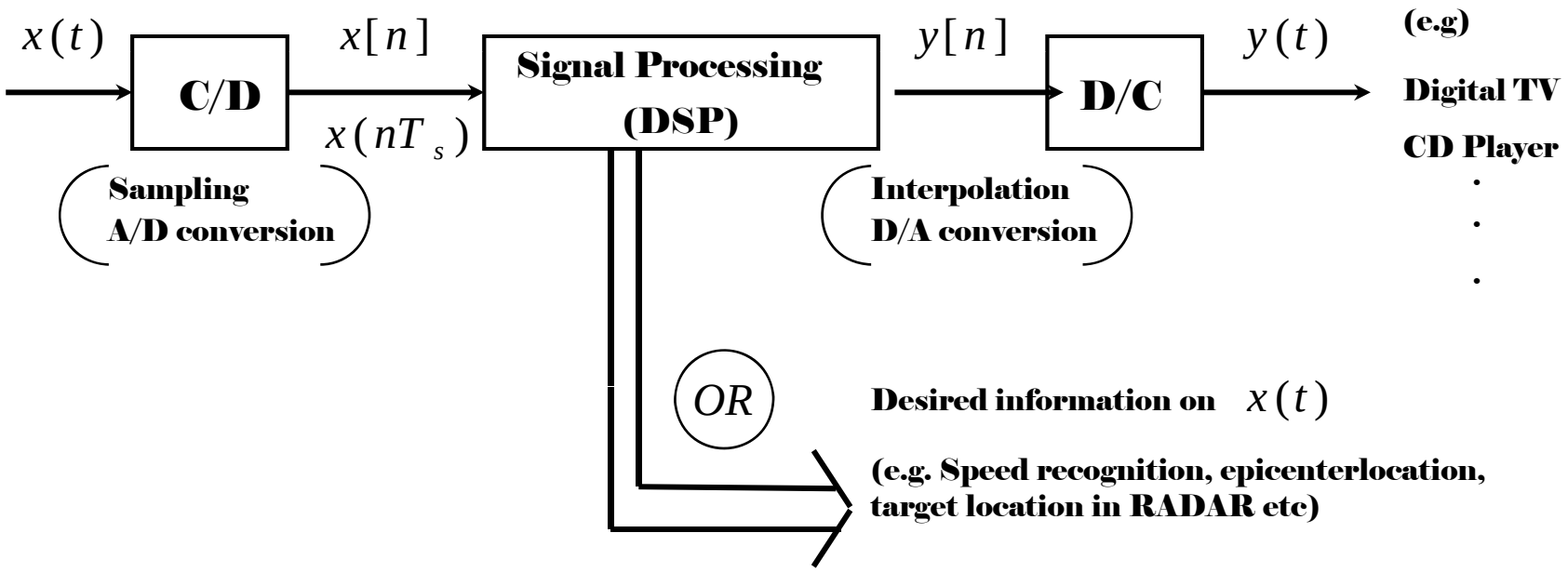
$x(t)$
C/D
$x[n]$
$x(nT_s)$
Signal Processing
(DSP)
$y[n]$
D/C
$y(t)$
(e.g)
Digital TV
CD Player
Sampling
A/D conversion
Interpolation
D/A conversion
OR
Desired information on $x(t)$
(e.g. Speed recognition, epicenterlocation,
target location in RADAR etc)

Figure 1.2

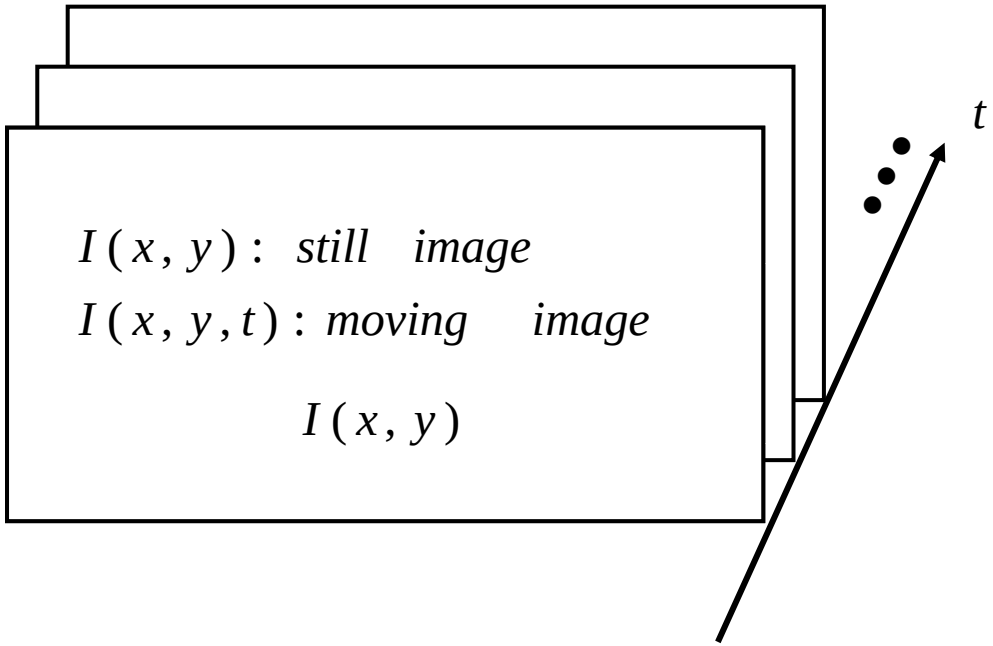

Figure 1.3