Hybrid Orthogonal Genetic Algorithm for Global Numeric Optimization

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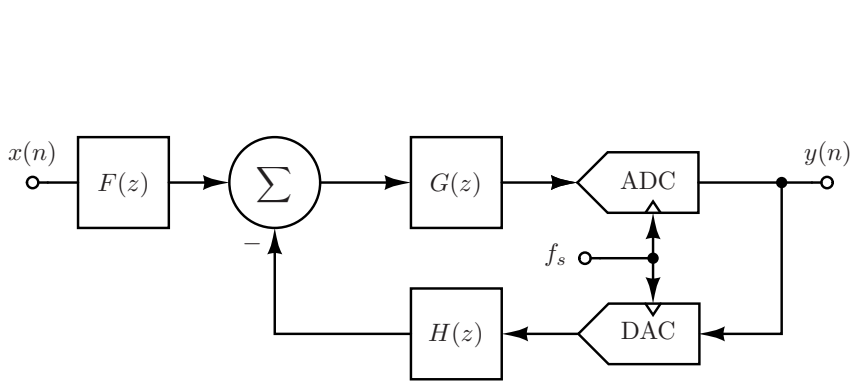
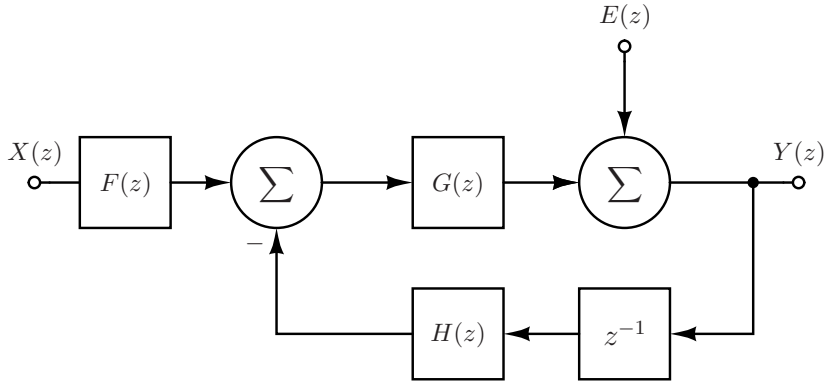
Introduction to Blind Deconvolution

- Blind deconvolution fundamental in signal processing
- Observation, $\mathbf{x} = \{x(t),\, t \in \mathcal{T}\}$, modelled as the convolution of unknown source, $\{s(t),\, t \in \mathcal{T}\}$, with unknown distortion operator, $\mathcal{A}$; *i.e.* $x(t) \triangleq s(t) \star \mathcal{A}$



Discrete Time $\Delta\Sigma$ Modulator



Linear Model

- Estimate $\mathcal{A}$, *or* $\hat{s}(t) = a\, s(t - \tau)$, a scaled shifted version of

Equation Sheet 1

$$\text{STF}(z) = \frac{F(z)G(z)}{1 + z^{-1}G(z)H(z)} \qquad \text{NTF} = \frac{1}{1 + z^{-1}G(z)H(z)}$$