

$$\begin{array}{ll}
\min & \mathcal{F}(x, \mathcal{V}(x)) \\
& x \\
\text{s.t.} & \mathcal{C}(x, \mathcal{V}(x)) = 0 \\
& x \geq 0, \\
\text{with} & \mathcal{R}(x, \mathcal{V}(x)) = 0,
\end{array}$$