

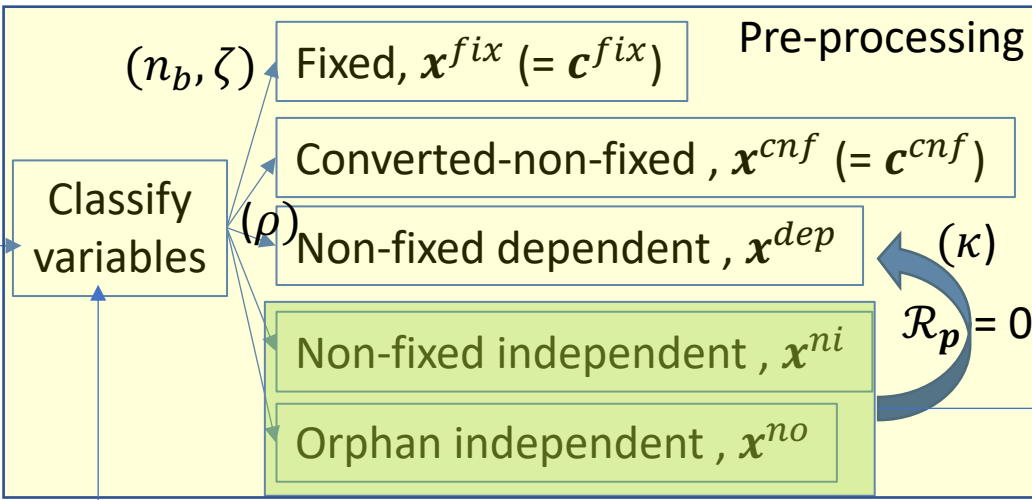
RegEMO Bi-level Procedure

$$(C(\mathcal{R}_p), \Delta HV(Z^{PF}, Z^{RF}(p)))$$

Initialize \mathbf{p} -pop $\in [\mathbf{p}^L, \mathbf{p}^U]$

Upper level optimization

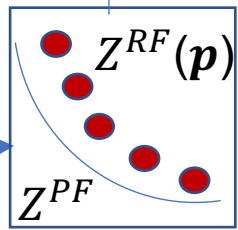
\mathbf{p} -vector
 $= (\zeta, n_b, \rho, \kappa)$



$$\mathbf{x}^{LL} = \mathbf{x}^{ni} + \mathbf{x}^{no} < M$$

Initialize \mathbf{x}^{LL} -pop $\in [(\mathbf{x}^{LL})^{PF,L}, (\mathbf{x}^{LL})^{PF,U}]$

Lower level optimization



Final RF, \mathcal{R}_p ,
 $(\mathbf{c}^{fix}, \mathbf{c}^{cnf},$
 $(\mathbf{x}^{LL})^{PF,L},$
 $(\mathbf{x}^{LL})^{PF,U})$

Original
 PO Set: $X \in (\mathbf{x}^{PF,L}, \mathbf{x}^{PF,U})$
 PF: Z^{PF}