(3) Descend. $\bar{x} = \hat{x}$. $\bar{x}_{prev} = \hat{x}_{prev}$

i. Begin $\bar{\bar{x}} = P(\bar{x}|\hat{x})$. If $\bar{\bar{x}} \in K - K^0$, stop (optimal)

ii.

$P(x|x^*)$ = projection of x onto objective plane containing x^*

High-Level

(1) Initialize IFS

Iteration:

(2) Center. If done, Stop.

(3) Descend. If done. Stop

(4) Go to 2.

$\hat{x}$ denotes an IFS.

$E: \hat{x}, \delta \to \{0, 1\}$ is 0 if $\delta(\hat{x})$ too small, 1 otherwise.

$\bar{\hat{x}}$ denotes "bottom" of $B(\hat{x})$ in direction $-c^T$

$\hat{x}^i$ i^{th} touching point of $\hat{x}$

$\bar{\hat{x}}^i$ projection of $\hat{x}^i$ onto $H(\hat{x})$, objective plane through $\bar{\hat{x}}$ $= P(\hat{x}^i|\hat{x})$

$\min \; c_i$

$ST \quad Ax \geq b$

$cx \geq -10^{100}$

(1) Given IFS $\hat{x}$.

(2) Center. Set $\delta_{prev} = 0$.

i. Get $\delta(\hat{x})$.
If $E(\hat{x}, \delta) = 1$, go to iii.

ii. Implementation detail 1, page 6. moving $\hat{x}$ towards "center".

iii. Get $T(\hat{x})$, $\bar{\hat{x}}\{\bar{\hat{x}}^i\}$. If $\delta(\bar{\hat{x}}) = 0$, Stop (optimal).

iv. For each $\bar{\hat{x}}^i$, Find $\max \alpha \geq 0$ $\alpha\bar{\hat{x}} + (1-\alpha)\hat{x}^i \in K$, denote $\max(\alpha) = \alpha^{i2}$

If $\alpha^{i2} = \infty$ for any i, stop. Comment: don't implement

v. Choose index r to minize $c\bar{\hat{x}} - c\left(\alpha^{r2}\bar{\hat{x}} + (1-\alpha^{r2})\hat{x}^r\right) = \Delta$

Let $\hat{x} = \bar{\hat{x}} + (1-\varepsilon^0)(\hat{x}^{r2} - \bar{\hat{x}})$ TBD.

If $\Delta > \Delta_0$ (TBD), set $\hat{x} = \hat{x}$. Go to i

vi. Let $\tilde{y} = \bar{\hat{x}}$. $y^1 = P(\hat{x}^r|\tilde{y})$, $y^2 = P(\bar{\hat{x}}|\tilde{y})$

Find $[\alpha_1, \alpha_2] \ni$ $X_{C(\alpha)}(1-\alpha)y^1 + \alpha y^2 \in K$, $\alpha_1, \alpha_2 \in K^0$

Find $\bar{\alpha} \in [\alpha_1, \alpha_2] \ni \delta(X_{C(\alpha)})$ is max using approach 1,

Let $\hat{x} = X_C(\bar{\alpha})$. If $\delta(\hat{x}) > \delta_{prev}$, $\hat{x}_{prev} = \hat{x}$, $\delta_{prev} = \delta(\hat{x})$ go to i

---

Report Goals

- Present trajectory of Programs
  - origin countries
  - where working
  - field of work
- Identify success factors
- Identify & survey success stories

re: – opportunities
– perceived success factors today (best able to project short term)

Apparent Success Factors

- Add'l education (e.g. listed skills, other degrees)
- Focus on programming
- " " Data Science
- US citizenship
- proximity to NYC, Boston, Chicago, SF, Toronto
- communication

Potential success factors

- who you k.
- alumni connec

Albert Cohen, MSCI HR
Stephen Rost
Adam West
Select Fina