

Definitionen

$$f_h := \max[f_i, 1 \leq i \leq m+1]$$

$$f_s := \max[f_i, 1 \leq i \leq m+1, i \neq h]$$

$$f_l := \min[f_i, 1 \leq i \leq m+1]$$

„Schwerpunkt“ \rightarrow

$$\bar{x}_c = \frac{1}{m} \sum_{\substack{i=1 \\ i \neq h}}^{m+1} \bar{x}_i$$

α -Operation: Reflexion \rightarrow

$$\bar{x}_\alpha(\bar{x}) = (1 + \alpha)\bar{x}_c - \alpha\bar{x}$$

β -Operation: Kontraktion \rightarrow

$$\bar{x}_\beta(\bar{x}) = (1 - \beta)\bar{x}_c + \beta\bar{x}$$

γ -Operation: Erweiterung \rightarrow

$$\bar{x}_\gamma(\bar{x}) = (1 - \gamma)\bar{x}_c + \gamma\bar{x}$$

δ -Operation: Schrumpfung \rightarrow

$$\bar{x}_\delta(\bar{x}) = \bar{x}_l + \delta(\bar{x} - \bar{x}_l)$$

Optimale Werte für Konstanten

$$\alpha = 1$$

$$\beta = 0,35$$

$$\gamma = 2$$

$$\delta = 0,5$$

