$f_{o}(x) \rightarrow min$ $f_{i}(x) \leq 0, i = 7, m$

Bre op-un bungmare, canocornacobannae

Memog Sapsepol

fo(x) + 1 = (-ln(f;(x)))

to, to ...

×(t) pemenne jagann

central path (uemparonon nymb)

fo(x) - ≤ In (-f;(x)) -> min x ∈ /Rⁿ

Jerobue onmunarenoemu 1-20 nopagua

 $\nabla f_{o}(x) - \sum_{i=1}^{m} \frac{1}{f_{i}(x)} \nabla f_{i}(x) = 0$, $\int_{0}^{(x)} \lambda_{i}^{(x)} = -\frac{1}{4f_{i}(x)}$

 $\nabla f_{o}(x^{*}) + \sum_{i=2}^{m} \lambda_{i}^{(*)} f_{i}(x^{*}) = 0$, $\lambda_{i}^{(*)} f_{i}(x^{*}) = 0$ = min 2 (x, \(x))= x = IR

= d(\\(\times^*))

 $f(x) = \max_{x} d(x) = \int_{x}^{\infty} d(x(x')) = \int_{x}^{\infty} (x'') - \frac{m}{4}$

Onmunarohre penerue

$$L(x^{+}, \lambda(x^{+})) = f_{0}(x^{+}) + \sum_{i=2}^{m} \lambda_{i}(x^{+}) f_{i}(x^{+}) = f_{0}(x^{+}) - \sum_{i=2}^{m} \frac{f_{i}(x^{+})}{f_{i}(x^{+})} = f_{0}(x^{+}) - \frac{m}{t}$$

$$= f_{0}(x^{+}) - \sum_{i=2}^{m} \frac{f_{i}(x^{+})}{f_{i}(x^{+})} = f_{0}(x^{+}) - \frac{m}{t}$$

$$= f_{0}(x^{+}) - m$$

$$= f_{0}(x^{+}$$

< m + fo(x) - m + L(x, - =) - m - m ln m = $f_0 + \sum_{i=1}^{m} \frac{f_i}{-f_i} = f_0 - \frac{m}{7}$ = ptfo-ptfo+pm-m-mlnp Morga ummslag oneuna nt fo(x)+ p(x)-nt fo(x1)-p(x+) < f(x) - lo $nm - \bar{n}$ f(x) - f(x), a gge f(x) + f(x) + f(x)Memoy ε , $t_0''=1$, m=5, $t_n = \mu'' t_0$, $m \leq \varepsilon$, $m \leq \varepsilon$, $\frac{m}{\varepsilon t_0} \leq \mu^n, \quad k \geq \frac{\ln \frac{m}{\varepsilon t_0}}{\ln \mu}$ Muneanage cu-mo ex-mu (resu. nporp.-gr) Crompo como burnerenni; n'log = n'un log ?

Hormon Enomno gonagame) At Ammanol, Museonole , Chopher Jagay"