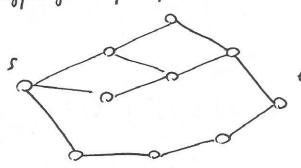
24.00.77 2M

Pagpeju rpagost.



$$C(i,j) > 0$$

 $(i,j) > 0$
 $(i,j) < C(i,j)$

nouck mancumanoung [f(s,i) = P Bernauna nomoka nomona & cema f: (s,i) EE

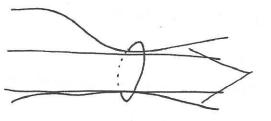
 $\sum_{j:(i,j)\in\mathcal{E}} f(i,j) = \sum_{j:(i,j)\in\mathcal{E}} f(j,i) \quad \forall i \neq s, t$ oef(i,j) $\in c(i,j) \ \forall (i,j) \in \mathcal{E}$

(s, t) - cut V= V, V V+ ; V, n V+ = & sevs, teVE

Benununa pazpeza $A = \sum_{(i,j) \in \mathcal{E}} c(i,j) \longrightarrow \min_{V_s, V_t}$ (i, i) € € it Vs, jeVt

90 < A

m P-u: max P=min A



$$T = \underset{= azymax p(T|X) = azymin F}{T}$$

= azymax p(T,x) = azymin F

Випарная сегнентация изображений

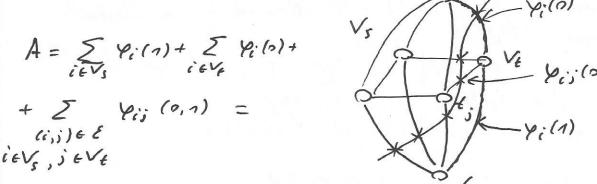
 $X, T \in \{0, 13^n, p(x, T) = \prod_{i \in V} Y_i(t_i, x_i) \prod_{(i,j) \in \mathcal{E}} Y_{ij}(t_i, t_j)$

 $T^* = argmin \left(\sum_{i \in V} y_i(t_i, x_i) + \sum_{(i,j) \in \mathcal{E}} y_i; (t_i, t_j) \right)$

Pi; (ti, t;) = exp(-11xi-x;112)[ti+ti]

E(T) = E Pi(ti) + E Pi; (ti, ti) -, min
cijlee Tefo,13"

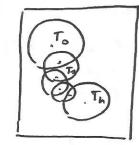
 $\frac{1}{t_{i}} \qquad \frac{1}{t_{i}} \qquad \frac{1}{t_{i}} = 0 \qquad$



y mobre pis (1,0) = 4is (0,1) 20 cylnoggraphoimn:

 $f: AcU \longrightarrow IR$, f: (9,0) > Pi; (0,0) + Pi; (1,1) $f: AcU \longrightarrow IR$, $f: (2 for 0 gyra proper , econ gra <math>\forall$ rogen - $\forall A, B$

f(AVB) + f(AnB) \in f(A) + f(B) \ Eanzon bungunux op-un Bjagan an g.o. 3



un la penenci

O nogn-les pem. restanume min le O Th-upulmeneme pemenne

E(To)> E(To)>...> E(To)= E(Ton) L-parmapeno

2 E & 1 ... K 3 4:00 Y:(p) $y_{i} = \begin{cases} 0, & t_{i} = t_{i} \neq 2 \\ 2, & t_{i} = 2 \end{cases}$ $y_{i} = 1$ $y_{i} = 1$ E(Y) +min fi= p 6.= 8 Tyinh Pis (d, d)=0 Vii, ile E, 42 Yis (p, 2)+ Yi; (2,8) ≥ Pi; (p,8) \ 2,p,8 nep-lo s. Morga Pij goronna dums nempukon Pis (ti, t;)= ([ti+t;) mome nempuka 24.03.77 2m cen [(x1, x2) = 0, x1+0, (1-x1)+0, x2+0, (1-x2)+0, x, (1-x1)+ X2, X2 ∈ {0,1} + 96 ×2 (1-x2) E(x1, x2)= ax1+ Bx2 + (x1 x2 ElTI = E pilti) + E pis (ti, ti)

$$y_{i} = \begin{cases} 0, & t_{i}^{i, t_{i}} = \emptyset \\ 2, & t_{i}^{i, t_{i}} = \emptyset \end{cases}$$

$$y_{i}(y_{i}) = \begin{cases} y_{i}(x_{i}) + \sum_{j \in N(i)} y_{j}(x_{j}) \\ y_{i}(y_{j}) + \sum_{j \in N(i)} y_{j}(x_{j}) \\ y_{i}(x_{j}) + \sum_{j \in N(i)} y_{j}(x_{j}) \\ y_{i}(x_{j}) + y_{i}(x_{j}) + y_{i}(x_{j}) \\ y_{i}(x_{j}) + y_{i}(x_{j}) + y_{i}(x_{j}) + y_{i}(x_{j}) \\ y_{i}(x_{j}) + y_{i}(x_{j}) + y_{i}(x_{j}) + y_{i}(x_{j}) + y_{i}(x_{j}) \\ y_{i}(x_{j}) + y_{i}(x_{j}) +$$