

(edge: dynamic/sensor model ? node: objective problem -> salve the over determined problem!

· Edge Creation

· Odoreery

O - O X:+1

measurement



×¹×i+i



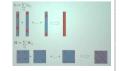
eij(x; xj) = +2 V (= i | (x | xj))

Notes: 1 $e_{ij}(x+\Delta x) \simeq e_{ij}(x) + \overline{J}_{ij}^{i}\Delta x$ $e_{ij}(x+\Delta x) \simeq e_{ij}(x) + \overline{J}_{ij}^{i}\Delta x$ $e_{ij}(x) \text{ depend only on } x \in X \in X_{ij}$ $e_{ij}(x) = e_{ij}^{i}(x_{ij}^{i})$ $e_{ij}(x) = e_{ij}^{i}(x_{ij}^{i})$ $e_{ij}(x) = e_{ij}^{i}(x_{ij}^{i})$

 $\overline{J}_{\overline{0}} = \left[\begin{array}{c|c} 0 & \cdots & 0 & \frac{\partial R}{\partial v_0} & 0 & \cdots & 0 & \frac{\partial R}{\partial v_0} & 0 \end{array} \right]$

• $b^{T} = \frac{1}{\sqrt{3}}b_{ij}^{T} = \frac{1}{\sqrt{3}}e_{ij}^{T}\Omega_{ij}J_{ij}^{T}$ (spallt) H = \$HJ = \$3/2016







• $e_{ij} = z_{ij} - (x_i-x_i)$ e12 = (1-(0-0))=1

e23 = (1-(0-0)) = 1 $\overline{J_{ij}} = \left(\begin{array}{cc} \frac{\partial e_{ij}}{\partial \mathbf{x}_i} & \frac{\partial e_{ij}}{\partial \mathbf{x}_2} & \frac{\partial e_{ij}}{\partial \mathbf{x}_3} \end{array} \right)$

 $J_{12} = \left(\begin{array}{cc} \frac{\partial e_{12}}{\partial x_1} & \frac{\partial e_{12}}{\partial x_2} & \frac{\partial e_{12}}{\partial x_2} \end{array}\right)$ = (1 -1 0)

 $J_{23} = (0 | 1 - 1)$ • P = \$ 64 20 10

= 1.1. (1-1.0) (b)

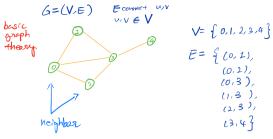
+1. 1. 10. 1,-1) (b) = (1 -1/2 -1/2)

• H = \$ 35 25 35

AX=-H\\ → ernox
when
det (H)=0

change the relative constraints to slobal one.

(:::)



I. neighbur (0) = \ 0.1,2}

2. degree (0) = 3 degree (2) = 2

3. path 4→3→2→0

4. cycle 0→1→3→2→0

ey: - graph is connected if 3 path between (UN)

(UN) EV

- graph is connected when all vertices
are connected

- connected comparent VISV

types of garph

1 undirected graph (Show above)

a. directal graph directed (cyclic) graph ond Acyclic group (PAG)

2 neighted graph



n traces

1. connected and acyclic

2. sensing edge decreases a cyclic

3. Adding edge creases a cyclic

graph representation

Adjacency Metalix

$$Aij = \begin{cases} 1 & \text{diag adjac } (i,j) \\ 0 & \text{otherwise} \end{cases}$$

 $\big\{(0,1),(0,2),(0,3),(1,3),(2,3),(3,4)\big.$

o adjusting list 0 → [123] 1 → 10 3] 2 → 10 12 4] 4 → 13]