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Lecture 23 Representation & Descriptions

Segmentation

> Enhancement

- Segments in teams of

- perpoolersing

> Regions: lines, points

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Tengor analysis passadigm

Internal us external Reprint Des

- Representation: Pirel coords inside segma Description colorsarea, tentros

Representation: End-point coordinates polygon Description: leximetes cuavature

Both internal and external

- Image classification

- Doject localization

- Semantic segmentation

- Tristance segmentation

Bourday following Given a segion R or its boundary: the algorithm for bollowing booder of R: [Number boundary points]

- det stacting points be upper, left most point dabded -> Denote by to the west neighbour bores is always > Examine &-neighbours of be, starting at co in clocker Jet b=b, (=c,

Jet b=b, (=c,

Jet Bneighbours of b, starting at c and going in clockwise

Jet Eneighbours of b, starting at c and going in clockwise

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Jet Eneighbours of b, starting at c and going in clockwise Desemptos Invariances

Descriptor Invariance:

Scale invested solution, translation, isotropic scale change

Not always ideal

Boundary description

Schain code (Faceman chain code)

2 1 0

La Dawn sample

Chain code needs only dietion

Initialization -> Troat code as circular, start with munumum integor Nomalised code: Gets code cossesponding to top left cooners. Start Gorn min integer. Rotation invasionce Use difference of code 2// 0 5 Polygon Appooximations - Minumum pennetes polygon La Cover boundary with cells of chosen size and home southers bound the about the straids with inside wells Boundary description rousies descriptions 13 Boundary as set of points s(A) = [z(K), y(k)] GRAPIT boundary S(R) = x (R) +jy(R) 20 as 10

DFT of s(k):

(a(u) = \(\sigma \) \(\sigma