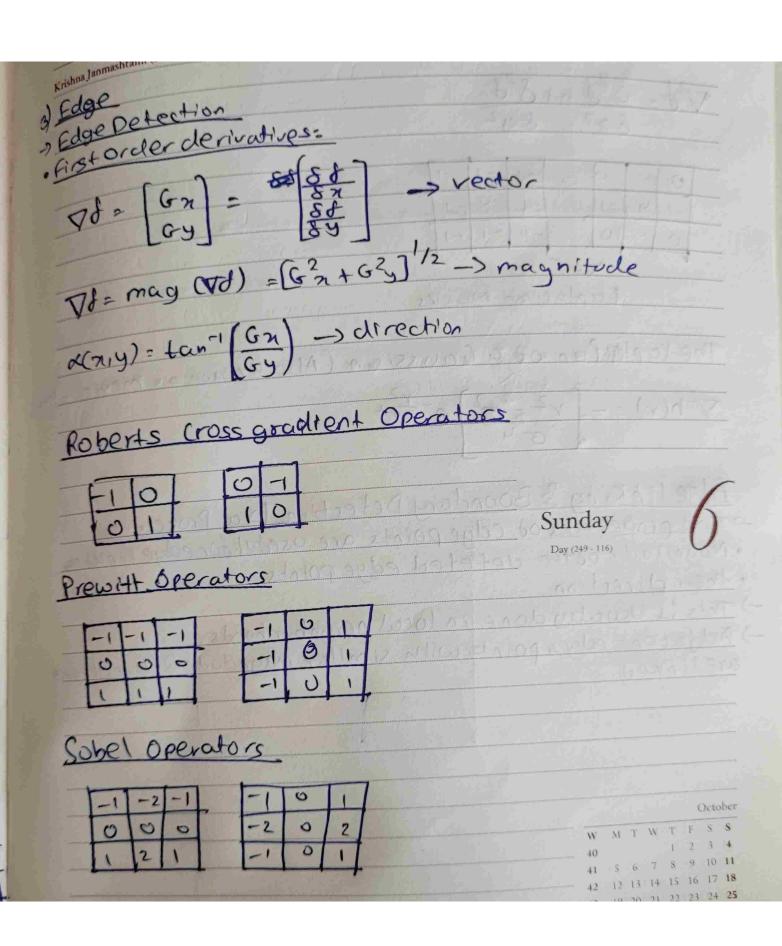
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Thresholding 1610bal 2) Adaptive Region based segmentation 1) Region Growing -) Procedure in which Pixels are grouped into larger regions bused on precletined Gondition. a) Select a pixel & grow the region from these region -) Approach -Arbitary pixel (x1,41) - Seed pixel b) Examine the unewest or 8 neurest neighbour -id cond" is satifised neighbouring pixel would be accepted c) New Pixel (n2, y2) -) corrent region -4 or 8 connectivity d) repeat this till all pixels are converted. e) All Pixel of one region are given a unique label. Two assumption => Predefined (and => max (of (21,4))-min(f(21,4)) Secret Pixel to be chosen 2) Region Splitting -) Check homogenity property, where pixels are similar and are grouped together -) One method to divide a region is to use a quad tree Structure 3) Region mergeing => We meed check if he dour adjacent homogenous regions arranged in a 2x2 fashion together Satisfy the homogenity property

Splitting & Merging 1) Id region satisfies the namogenity criteria, leave it un modified 2) Idonot split it into 4 quadrants & recursively appy 122 to each newly generated region, STOP when all regions sulledy the homogentity criterion. 3) Id two any 2 adjacent regions RIIR a can be merged into a homogenous region, mergethem. STOP when ono merging is Possible any more Boundary Descriptors -> Chain lodes => Represents an obis boundary by a connected sequence ad straight line segments od specified length 2 direction. -) To avoid degradation Slong chains a resampling of the image gid is commonly used. -) The problem of chain code is the & sequence depends on a Starting point -) Sol= is to treat 1 + as a circular sequence -> The first difference of chain code is counting the no of direction change between 2 adjacent elements at trecade. -) Shape number => The first difference of Smallest mergnitude Signiture -) A simple dunctional representation that can be used to describe breconstruct the boundary with appropriate accoracy

Week 37
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